



FIGURE 1

FIGURE 41A

hUbiquitin

Primary probe  
INVADER oligonucleotide  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CGC CGA GAT CAC CTT TAC ATT TTC TAT CGT NH2-3'  
5'-CCT TCC TTA TCC TGG ATC TTG GCA -3'  
5'-ACG ATA GAA AAT GTA AAG GTG ATC-3'  
5'-RED-CTC (Z28) TTC TCA GTG CG-3'  
5'-CGC AGT GAG AAT GAG GTG ATC TCG GCG GT-3'

(SEQ ID NO:169)  
(SEQ ID NO:170)  
(SEQ ID NO:171)  
(SEQ ID NO:172)  
(SEQ ID NO:173)

m/r Ubiquitin, mouse (288C, 516C, 744C, 972C), rat (247C, 475C, 703C, 931C)

Primary probe  
INVADER oligonucleotide 1  
INVADER oligonucleotide 2  
INVADER oligonucleotide 3  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG CCG AGA TCA CGG ATG TTG TAA TCA GAG A-NH2-3'  
5'-GTG CAG GGT TGA CTC CTT CTC-3'  
5'-GTG CAG GGT TGA CTC TTT CTC-3'  
5'-GTG CAG GGT CGA CTC TTT CTC-3'  
5'-TCT CTG ATT ACA ACA TCC GTG ATC T-3'  
5'-RED-CTC (Z28) TTC TCA GTG CG-3'  
5'-CGC AGT GAG AAT GAG GTG ATC TCG GCG GT-3'

(SEQ ID NO:174)  
(SEQ ID NO:175)  
(SEQ ID NO:176)  
(SEQ ID NO:177)  
(SEQ ID NO:178)  
(SEQ ID NO:172)  
(SEQ ID NO:173)

r/m GAPDH, rat (150C), mouse(166C)

Primary probe  
INVADER oligonucleotide  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CGC CGA GAT CAC GTA GTT GAG GTC AAT GA-NH2-3'  
5'-GAA TCA TAC TGG AAC ATG TAG ACC ATC-3'  
5'-TCA TTG ACC TCA ACT ACG TGA TCT-3'  
5'-RED-CTC (Z28) TTC TCA GTG CG-3'  
5'-CGC AGT GAG AAT GAG GTG ATC TCG GCG GT-3'

(SEQ ID NO:179)  
(SEQ ID NO:180)  
(SEQ ID NO:181)  
(SEQ ID NO:172)  
(SEQ ID NO:173)

hGAPDH, 516C

Primary probe  
INVADER oligonucleotide  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG CCG AGA TCA CGA TGA TCT TGA GGC T-NH2-3'  
5'-TGG TGC AGG AGG CAT TGC TC-3'  
5'-CAG CCT CAA GAT TAC CGT GAT CT-3'  
5'-RED-CTC (Z28) TTC TCA GTG CG-3'  
5'-CGC AGT GAG AAT GAG GTG ATC TCG GCG GT-3'

(SEQ ID NO:182)  
(SEQ ID NO:183)  
(SEQ ID NO:184)  
(SEQ ID NO:172)  
(SEQ ID NO:173)

FIGURE 41B

hTGF- $\beta$

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC CTC CAC GGC TC -3'

5'-AGG CGA AAG CCC TCA ATT TCC CA-3'

5'-AAC CAC TGC CGC ACA-3'

5'-GAG CCG TGG AGG AGG CG-3'

5'-FL-CAC-(Z28)-TGC TTC GTG G-3'

5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:185)

(SEQ ID NO:186)

(SEQ ID NO:187)

(SEQ ID NO:188)

(SEQ ID NO:189)

(SEQ ID NO:190)

hMCP-1

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC CTT CGG AGT TTG GG NH2 -3''

5' -GGG TTG TGG AGT GAG TGT TCA AGT A -3'

NO STACKER

5'-GGG-AAA-CTC-CGA-AGG- AGG-CG-3'

5'-FL-CAC-Z28-TGC TTC GTG G-3'

5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:191)

(SEQ ID NO:192)

(SEQ ID NO:193)

(SEQ ID NO:189)

(SEQ ID NO:190)

hTNF- $\alpha$

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5'-CCG TCA CGC CTC TCT GAC TGC CA NH2-3'

5' -TTG TCA CTC GGG GTT CGA GAA GAT GAA-3'

5'-GGG CCA GAG GG-3'

5'-AGG CAG TCA GAG AGG CG-3'

5'-FL-CAC-Z28-TGC TTC GTG G-3'

5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:194)

(SEQ ID NO:195)

(SEQ ID NO:196)

(SEQ ID NO:197)

(SEQ ID NO:189)

(SEQ ID NO:190)

hIL-6

Primary probe

INVADER oligonucleotide

Stacker

ARRESTOR oligonucleotide

FRET Probe

Secondary target

5' -CCG TCA CGC CTC CTC ATT GAA TTNH2-3'

5' -CCA AAA GTC CAG TGA TTT TCA CCA GGC AAG TA -3'

5'-CAG ATT GGA AGC ATC CAT CT-3'

5'-GAT TCA ATG AGG AGG AGG C-3'

5'-FL-CAC-(Z28)-TGC TTC GTG G-3'

5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:198)

(SEQ ID NO:199)

(SEQ ID NO:200)

(SEQ ID NO:201)

(SEQ ID NO:189)

(SEQ ID NO:190)

**FIGURE 41C**

**hIL-1 $\beta$**

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC CAT CTG TTT AGG NH<sub>2</sub>-3'  
5'-CAG GTC CTG GAA GGA GCA CTT A-3'  
5'-GCC ATC AGC TTC TTT GTT CTT GTG ATC-3'  
5'-GCC CTA AAC AGA TGG AGG CG-3'  
5'-FL-CAC-(Z28)-TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:202)  
(SEQ ID NO:203)  
(SEQ ID NO:204)  
(SEQ ID NO:205)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

**hIL-2**

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC CTC CAG TTG TAG NH<sub>2</sub>-3'  
5'-AAA ATC ATC TGT AAA TCC AGC AGT AAA TGA -3'  
5'-CTG TGT TTT CTT TGT AGA AG -3'  
5'-CTA CAA CTG GAG GAG GC -3'  
5'-FL-CAC-(Z28)-TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:206)  
(SEQ ID NO:207)  
(SEQ ID NO:208)  
(SEQ ID NO:209)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

**hIL-8**

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC CTC TCA GTT CT-NH<sub>2</sub>-3'  
5'-GTG TGG TCC ACT CTC AAT CAA -3'  
5'-TTG ATA AAT TTG GGG TGG AAA GGT TTG GA-3'  
5'-AGA ACT GAG AGG AGG CG-3'  
5'-FL-CAC-(Z28)-TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:210)  
(SEQ ID NO:211)  
(SEQ ID NO:619)  
(SEQ ID NO:620)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

**hIL-10**

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC CAA ACT CAC TCA T-NH<sub>2</sub>-3'  
5'-GTC ATG TAG GCT TCT ATG TAG TTG ATG AAG ATG TA-3'  
5'-GGC TTT GTA GAT GCC TTT CTC TTG GA-3'  
5'-ATG AGT GAG TTT GGT GCG-3'  
5'-FL-CAC (Z28)-TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:621)  
(SEQ ID NO:622)  
(SEQ ID NO:623)  
(SEQ ID NO:624)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

FIGURE 41D

hIL-4

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC CTT GGA GGC A-NH2-3'  
5'-AAG GTT TCC TTC TCA GTT GTG TTA-3'  
5'-GCA AAG ATG TCT GTT ACG GTC AAC TC-3'  
5'-TGC CTC CAA GGT GCG C-3'  
5'-FL-CAC (Z28)-TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:626)  
(SEQ ID NO:627)  
(SEQ ID NO:628)  
(SEQ ID NO:629)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

hIFN- $\gamma$

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC CTT CAA AAT GCC TAA-NH2-3'  
5'-TGT CAC TCT CCT CTT TCC AAT TA-3'  
5'-GAA AAG AGT TCC ATT ATC CGC TAC ATC TG-3'  
5'-TTA GGC ATT TTG AAG GTG CGC-3'  
5'-FL-CAC (Z28)-TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:630)  
(SEQ ID NO:631)  
(SEQ ID NO:632)  
(SEQ ID NO:633)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

FIGURE 41E

### hCYP 1A2, 1193G

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC CGT TGT GTC CC-NH2-3'  
5'-GGG ATG TAG AAG CCA TTC AGA-3'  
5'-TTG TTG TGC TGT GGG GGA TG-3'  
5'-GGG ACA CAA CGG TGC GC-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:634)  
(SEQ ID NO:635)  
(SEQ ID NO:636)  
(SEQ ID NO:637)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

### hCYP 2B6, 343G

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC CAC CAT ATC CC-NH2-3'  
5'-CCA GCG GTT TCC ATT GGC AAA GAT CAA-3'  
5'-CGG AAG AAT GGG TCG ACC ATG-3'  
5'-GGG ATA TGG TGG AGG CG-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:638)  
(SEQ ID NO:639)  
(SEQ ID NO:640)  
(SEQ ID NO:641)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

### hCYP 2C19, 223G

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC CGT TCC AGG C-NH2-3'  
5'-CAT ATC CAT GCA GCA CCA CCA TGA-3'  
5'-CAA AAT ACA GAG TGA ACA CAG GGC C-3'  
5'-GCC TGG AAC GGT GCG C-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:642)  
(SEQ ID NO:643)  
(SEQ ID NO:644)  
(SEQ ID NO:645)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

### hCYP 2C9, 1554T

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC ATG GAT AAT GCC C-NH2-3'  
5'-CAG GTG AGA AAA GGC ATT ACA GAT AGT GAA AGC-3'  
5'-CAG AGG AAA GAG AGC TGC AGG G-3'  
5'-GGG CAT TAT CCA TGA GGC G-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:646)  
(SEQ ID NO:647)  
(SEQ ID NO:648)  
(SEQ ID NO:649)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

FIGURE 41F

hCYP 2D6, 1316G

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC CCT GCT GAG AAA-NH2-3'  
5'-CCC GAG GCA TGC ACG GCG GA-3'  
5'-GGC AGG AAG GCC TCC-3'  
5'-TTT CTC AGC AGG GAG GCG-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:650)  
(SEQ ID NO:651)  
(SEQ ID NO:652)  
(SEQ ID NO:653)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

hCYP 3A4, 309C

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC GCC CCA CA-NH2-3'  
5'-CAG CAC AGG CTG TTG ACC ATC ATA AAA C-3'  
5'-CTT TTC CAT ACT TTT TAT GAC ATT C-3'  
5'-TGT GGG GCG AGG CG-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:654)  
(SEQ ID NO:655)  
(SEQ ID NO:656)  
(SEQ ID NO:657)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

hCYP 3A5 v2, 323T

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC AGT TGA CCT TC-NH2-3'  
5'-GTG ATG GCC AGC ACA GGG C-3'  
5'-ATA CGT TCC CCA CAT TTT TC-3'  
5'-TGA AGG TCA ACT GTG CGC-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:658)  
(SEQ ID NO:659)  
(SEQ ID NO:660)  
(SEQ ID NO:661)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

hCYP 3A7, 231C

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC GTC ATA AAT ACC CC-NH2-3'  
5'-GCC AGC ATA GGC TGT TGA CAC-3'  
5'-AGA CTT TTC TAT ACT TTT TAT AAC ATT C-3'  
5'-GGG GTA TTT ATG ACG TGC GC-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:662)  
(SEQ ID NO:663)  
(SEQ ID NO:664)  
(SEQ ID NO:665)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

**FIGURE 41G**

**h/rCYP 1A1 (human: 937, rat 863G)**

Primary probe	5'-CCG TCA CGC CTC CTG TCT GTG AT-NH2-3'	(SEQ ID NO:666)
INVADER oligonucleotide (h)	5'-TCC TGA CAG TGC TCA ATC AGG A-3'	(SEQ ID NO:667)
INVADER oligonucleotide (r)	5'-TCC TGA CAA TGC TCA ATG AGG A-3'	(SEQ ID NO:668)
Stacker	5'-GTC CCG GAT GTG GCC C-3'	(SEQ ID NO:669)
ARRESTOR oligonucleotide	5'-ATC ACA GAC AGG AGG CG-3'	(SEQ ID NO:670)
FRET Probe	5'-FL-CAC (Z28) TGC TTC GTG G-3'	(SEQ ID NO:189)
Secondary target	5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'	(SEQ ID NO:190)

**h/rCYP 1A2 (813C/819C)**

Primary probe	5'-AAC GAG GCG CAC GGA CTG TTT TCT GC-NH2-3'	(SEQ ID NO:671)
INVADER oligonucleotide (h)	5'-CTT GTC AAA GTC CTG ATA GTG CTC CTC-3'	(SEQ ID NO:672)
INVADER oligonucleotide (r)	5'-CTT GTT GAA GTC TTG ATA GTG TTC CTC-3'	(SEQ ID NO:673)
ARRESTOR oligonucleotide	5'-GCA GAA AAC AGT CCG TGC GC-3'	(SEQ ID NO:674)
FRET Probe	5'-FL-CAC (Z28) TGC TTC GTG G-3'	(SEQ ID NO:189)
Secondary target	5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'	(SEQ ID NO:625)

**rCYP 2B1, 1017T**

Primary probe	5'-CCG TCA CGC CTC ACT GCG GTC AT-NH2-3'	(SEQ ID NO:675)
INVADER oligonucleotide	5'-GTG GAT AAC TGC ATC AGT GTA TGG CAT TTT C-3'	(SEQ ID NO:676)
Stacker	5'-CAA GGG TTG GTA GCC TGT GTG AGC C-3'	(SEQ ID NO:677)
ARRESTOR oligonucleotide	5'-ATG ACC GCA GTG AGG CG-3'	(SEQ ID NO:678)
FRET Probe	5'-FL-CAC (Z28) TGC TTC GTG G-3'	(SEQ ID NO:189)
Secondary target	5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'	(SEQ ID NO:190)

**rCYP 2B2, 162T**

Primary probe	5'-CCG TCA CGC CTC AGA GCC AAT CAC-NH2-3'	(SEQ ID NO:679)
INVADER oligonucleotide	5'-CGA TCA TCA AGG GAT GGT GGC CTG TGC-3'	(SEQ ID NO:680)
Stacker	5'-CTG ATC AAT CTC CTT TTG GAC TTT CTC TGC G-3'	(SEQ ID NO:681)
ARRESTOR oligonucleotide	5'-GTG ATT GGC TCT GAG GCG-3'	(SEQ ID NO:682)
FRET Probe	5'-FL-CAC (Z28) TGC TTC GTG G-3'	(SEQ ID NO:189)
Secondary target	5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'	(SEQ ID NO:190)



# FIGURE 41H

## rCYP 2E1, 969G

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC CTC AAT TTC TG-NH2-3'  
5'-CCC TGT CAA TTT CTT CAT GAA GTT TA-3'  
5'-GGT ATT TCA TGA GGA TCA GGA GC-3"  
5'-CAG AAA TTG AAG AGG AGG CG-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:683)  
(SEQ ID NO:684)  
(SEQ ID NO:685)  
(SEQ ID NO:686)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

## rCYP 3A1, 164G

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC CGG GTC CCA-NH2-3'  
5'-TCC CCT GTT TCT TGA AAA GTC CAT GTG TGA-3'  
5'-AAT CCG TAG AGG AGC ACC AGG-3'  
5'-TGG GAC CCG GTG CGC-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:687)  
(SEQ ID NO:688)  
(SEQ ID NO:689)  
(SEQ ID NO:690)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

## rCYP 3A2, 1091G

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-CCG TCA CGC CTC CTC GGC AGG-NH2-3'  
5'-CAC AAT ATC GTA GGT AGG AGG TGC CTT AA-3'  
5'-GCC CCA TCG ATC TCC TCC-3'  
5'-CCT GCC GAG GAG GCG-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG AGG CGT GAC GGT-3'

(SEQ ID NO:691)  
(SEQ ID NO:692)  
(SEQ ID NO:693)  
(SEQ ID NO:694)  
(SEQ ID NO:189)  
(SEQ ID NO:190)

## rCYP 4A1, 296A

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC TAG GCT TTG CT-NH2-3'  
5'-TTC ATG TAG TCA GGG TCA TAG ACA ATT AAG A-3'  
5'-TCC CCA GAA CCA TCG AGG AAA GG-3'  
5'-AGC AAA GCC TAG TGC GC-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:695)  
(SEQ ID NO:696)  
(SEQ ID NO:697)  
(SEQ ID NO:698)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

FIGURE 41I

rCYP 4A2

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC AGA AGG CCC CTT-NH2-3'  
5'-CCT TGA ACA GCA CCA GAA ATA GAC TGA GCA C-3'  
5'-GGA AGA ACC CAG AGA CAC CAT CC-3'  
5'-AAG GGG CCT TCT GTG CGC-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:699)  
(SEQ ID NO:700)  
(SEQ ID NO:701)  
(SEQ ID NO:702)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

rCYP 4A3, 1235C

Primary probe  
INVADER oligonucleotide  
Stacker  
ARRESTOR oligonucleotide  
FRET Probe  
Secondary target

5'-AAC GAG GCG CAC GTT GTG ATA CCT T-NH2-3'  
5'-GAT GAA GGC CAT AAA TTA AAA TTG TGC-3'  
5'-TGG GTA TGG AAC GTC C-3'  
5'-AAG GTA TCA CAA CGT GCG C-3'  
5'-FL-CAC (Z28) TGC TTC GTG G-3'  
5'-CCA GGA AGC AAG TGG TGC GCC TCG TTT-3'

(SEQ ID NO:703)  
(SEQ ID NO:704)  
(SEQ ID NO:705)  
(SEQ ID NO:706)  
(SEQ ID NO:189)  
(SEQ ID NO:625)

FIGURE 47A

Oligo sequence descriptions: 5' to 3' direction, 2'-Ome nts are bolded and underlined, internal modifications defined in ( )

Oligo Type	Oligo Sequence (5' to 3')	Modification	SEQ ID NO
hTNF- $\alpha$			
probe	ccg ccg aga tca ctc tga ctg cct NH2	3' Amine	709
invader	tig tca ctc ggg gtt cga gaa gat gaa		710
stacker	<u>ggg cca gag ggc tga tta g</u>	<u>all 2'Ome bases</u>	711
stacker	<u>ggg cca gag ggc tga tta</u>	<u>all 2'Ome bases</u>	712
stacker	<u>ggg cca gag ggc tga at</u>	<u>all 2'Ome bases</u>	713
stacker	<u>ggg cca gag ggc t</u>	<u>all 2'Ome bases</u>	714
stacker	<u>ggg cca gag gg</u>	<u>all 2'Ome bases</u>	715
arrestor	<u>agg cag tca gag tga tc</u>	<u>all 2'Ome bases</u>	716
arrestor	<u>agg cag tca gag tga tct c</u>	<u>all 2'Ome bases</u>	717
SRT	cggaagaagcagttggatctcgccgNH2		718
FRET probe	Fcaac(Cy3)gcttctccg	3' Amine	719
probe	ccg tca cgc ctc tct gac tgc ct NH2	3' Amine	720
invader	tig tca ctc ggg gtt cga gaa gat gaa		721
stacker	<u>ggg cca gag ggc tga tta g</u>	<u>all 2'Ome bases</u>	722
arrestor	<u>agg cag tca gag agg cg</u>	<u>all 2'Ome bases</u>	723
SRT	cggaagaagcagttggagcggtgacggtNH2	3'base 2'Ome, 3'Amine	724
FRET probe	Fcaac(Cy3)gcttctccg		725
probe	ccg tca cgc ctc tct gac tgc ctg gNH2	3' Amine	726
invader	tig tca ctc ggg gtt cga gaa gat gaa		727
arrestor	<u>cca ggc agt cag aga ggc g</u>	<u>all 2'Ome bases</u>	728
SRT	cggaagaagcagttggagcggtgacggtNH2	3'base 2'Ome, 3'Amine	729
FRET probe	Fcaac(Cy3)gcttctccg		730
probe	ccg ccg aga tca ctc tga ctg cc NH2	3' Amine	731
invader	tig tca ctc ggg gtt cga gaa gat gaa		732
stacker	<u>tgg gcc aga ggg ctg att a</u>	<u>all 2'Ome bases</u>	733
arrestor	<u>agg cag tca gag tga tc</u>	<u>all 2'Ome bases</u>	734
SRT	cggaagaagcagttggatctcgccgNH2	3' Amine	735
FRET probe	Fcaac(Cy3)gcttctccg		736
probe	ccg ccg aga tca ctg atc tga ctg NH2	3' Amine	737
invader	ctt gtc act cgg ggt tgc aga aga c		738

FIGURE 47B

stacker	<u>cc</u> <u>t</u> <u>ggg</u> <u>cca</u> <u>gag</u> <u>ggc</u> <u>tga</u> <u>tt</u>	all 2'Ome bases	739
arrestor	<u>cag</u> <u>tca</u> <u>gat</u> <u>cag</u> <u>tga</u> <u>tc</u>	all 2'Ome bases	740
SRT	cggaaagacagctggatcgcggcggNH2	3' Amine	741
FRET probe	Fcaac(Cy3)gcttcctccg		742
probe	cgg tca cgc ctc tct gac tgc ca NH2	3' Amine	743
probe	cgg tca cgc ctc tct gac tgc cg NH2	3' Amine	744
probe	cgg tca cgc ctc tct gac ggc ct NH2	3' Amine	745
probe	cgg tca cgc ctc tct gac agc ct NH2	3' Amine	746
invader	tgt tca ctc ggg gtt oga gaa gat gaa		747
stacker	<u>ggg</u> <u>cca</u> <u>gag</u> <u>gg</u>	all 2'Ome bases	748
arrestor	<u>agg</u> <u>cag</u> <u>tca</u> <u>gag</u> <u>agg</u> <u>cg</u>	all 2'Ome bases	749
arrestor	<u>agg</u> <u>ccg</u> <u>tca</u> <u>gag</u> <u>agg</u> <u>cg</u>	all 2'Ome bases	750
arrestor	<u>agg</u> <u>ctg</u> <u>tca</u> <u>gag</u> <u>agg</u> <u>cg</u>	all 2'Ome bases	751
SRT	ccaggaaagcagctggagcgctgacggu	3' 3bases 2'Ome	752
FRET probe	Fcaac(Z21)gcttcctccg		753
probe	cgg cgg aga tca ctc tga tgc ctg gg NH2	3' Amine	754
invader	ctt gtc act cgg ggt tgg aga aga tga a		755
arrestor	<u>ccc</u> <u>agg</u> <u>cag</u> <u>tca</u> <u>gag</u> <u>tga</u> <u>tc</u> <u>NH2</u>	all 2'Ome bases, 3' Amine	756
SRT	cggaggaaagcagctggatcgcggcggNH2	3' 2 last base 2' Ome, 3' Amine	757
FRET probe	Fcaac(Cy3)gcttcctccg		758
hIL-1β			
probe	cgg tca cgc ctc cat ctg ttg agg g NH2	3' Amine	759
invader	cag gtc ctg gaa gga gca ctt a		760
stacker	<u>cca</u> <u>tca</u> <u>gct</u> <u>tct</u> <u>tgt</u> <u>ttc</u> <u>tgc</u> <u>tca</u> <u>tc</u>	all 2'Ome bases	761
arrestor	<u>gcc</u> <u>cta</u> <u>aac</u> <u>aga</u> <u>tgg</u> <u>agg</u> <u>cg</u>	all 2'Ome bases	762
SRT	cggaaagacagctggagcgctgacggtNH2	3'base 2'Ome, 3'Amine	763
FRET probe	Fcaac(Cy3)gcttcctccg		764
probe	cgg tca cgc ctc cat ctg ttg agg gc NH2	3' Amine	765
invader	cag gtc ctg gaa gga gca ctt a		766
stacker	<u>cat</u> <u>cag</u> <u>ctt</u> <u>ctt</u> <u>tgt</u> <u>tct</u> <u>tgt</u> <u>cat</u> <u>cc</u>	all 2'Ome bases	767
arrestor	<u>gcc</u> <u>cta</u> <u>aac</u> <u>aga</u> <u>tgg</u> <u>agg</u> <u>cg</u>	all 2'Ome bases	768
SRT	cggaaagacagctggagcgctgacggtNH2	3'base 2'Ome, 3'Amine	769
FRET probe	Fcaac(Cy3)gcttcctccg		770
probe	cgg tca cgc ctc cat ctg ttg agg NH2	3' Amine	771



FIGURE 47D

hIL-6	ccg ccg aga tca ctc tcc tca ttg aat cct NH2	3' Amine	805
probe	ccg ccg aga tca ctc tcc tca ttg aat cct NH2	3' Amine	806
invader	cca aaa gtc cag tga tga ttt tca cca ggc aag a		807
arrestor	<u>agg att caa tga gga aga gtc atc tNH2</u>	<u>all 2'Ome bases, 3' Amine</u>	808
SRT	cggaggaagcagttggtgacitcgccggtNH2	3' 2 last base 2'Ome, 3' Amine	809
FRET probe	Fcaac(Cy3)gcttctctccg		810
probe	ccg tca cgc ctc ctc ctc att gaaNH2	3' Amine	811
invader	cca gtc atg att ttc acc agg caa gta		812
stacker	<u>tcc aga ttg gaa gca tcc atc t</u>	<u>all 2'Ome bases</u>	813
arrestor	<u>ttc aat gag gag gag gc</u>	<u>all 2'Ome bases</u>	814
SRT	cggagaagcagttggaggcgtgacggtNH2	3' base 2'Ome, 3' Amine	815
FRET probe	Fcaac(Cy3)gcttctctccg		816
probe	ccg tca cgc ctc ctc ctc att gaaNH2	3' Amine	817
invader	cca gtc atg att ttc acc agg caa gta		818
stacker	<u>atc cag att gga agc atc cat ct</u>	<u>all 2'Ome bases</u>	819
arrestor	<u>ttc aat gag gag gag gc</u>	<u>all 2'Ome bases</u>	820
SRT	cggagaagcagttggaggcgtgacggtNH2	3' base 2'Ome, 3' Amine	821
FRET probe	Fcaac(Cy3)gcttctctccg		822
probe	ccg tca cgc ctc ctc ctc att gaa tNH2	3' Amine	823
probe	ccg tca cgc ctc ctc ctc att gaa tNH2	3' Amine	824
probe	ccg tca cgc ctc ctc ctc att gaa tNH2	3' Amine	825
invader	cca aaa gtc cag tga tga ttt tca cca ggc aag ta		826
stacker	<u>cagattggaagcaccatct</u>	<u>all 2'Ome bases</u>	827
arrestor	<u>gattcaatgaggagggc</u>	<u>all 2'Ome bases</u>	828
SRT	ccaggaagcaagtgaggcgtgacggu	3' 3 bases 2'Ome	829
FRET probe	Fcac(ZZ1)tgcttcgtgg		830
hMCP-1	ccg tca cgc ctc ctt cgg agt ttg gNH2	3' Amine	831
probe	ccg tca cgc ctc ctt cgg agt ttg gtt NH2	3' Amine	832
invader	ggg ttg tgg agt gag tgt tca agt a		833
arrestor	<u>aac cca aac tcc gaa ggc ggc gtc NH2</u>	<u>all 2'Ome bases</u>	834
SRT	cggagaagcagttggaggcgtgacggtNH2	3' base 2'Ome, 3' Amine	835

FIGURE 47E

FRET probe	Fcaac(Cy3)gcttctccg	836
probe	gcc gtc acg cct ctt tgg gtt tgc ttg tc NH2	837
probe	gcc gtc acg cct ctt tgg gtt tgc ttg tNH2	838
invader	tggagtgaagtgaagtcacgcttcggaga	839
arrestor	<b>gacaagcaaacccaaagagcg</b>	840
SRT	cggaagaagcagttggaggcgtgacg	841
FRET probe	Fcaac(Cy3)gcttctccg	842
probe	cct gtc tgc ctg cct tgc gag ttg ggg	843
probe	cct gtc tgc ctg cct tgc gag ttg gg	844
invader	ggg ttg tgg agt gag tgt tca agt a	845
arrestor	<b>ccc.aaa.ctc.cga.agg.cag.cg</b>	846
SRT	cggaggaaagcagttggcagcgagacgNH2	847
SRT	cggaggaaagcagttggcagcgagac(Amino dA)ggNH2	848
SRT	cggaggaaagcagttggcagcg(Amino dA)gacaggNH2	849
SRT	cggaggaaagcagttggc(Amonon dA)gcgagacaggNH2	850
SRT	cggaggaaagcagttggcagcg(Amino dA)gac(Amino dA)ggNH2	851
SRT	cggaggaaagcagttggc(Amino dA)gcgagac(Amino dA)ggNH2	852
SRT	cggaggaaagcagttggc(Amino dA)gcg(Amino dA)gacaggNH2	853
FRET probe	Fcaac(Cy3)gcttctccg	854
probe	gcc gtc acg cct ctg gga cac ttg ctg cNH2	855
invader	gcc aca atg gtc ttg aag atc aca gct tct ta	856
arrestor	<b>gca.gca.agt.gtc.cca.gag.gcg.NH2</b>	857
SRT	cggaagaagcagttggaggcgigacggcNH2	858
FRET probe	Fcaac(Cy3)gcttctccg	859
probe	cgc tca cgc ctg ctt cgg agt ttg gg NH2	860
invader	ggg ttg tgg agt gag tgt tca agt a	861
arrestor	<b>5'-ggg-aaa-ctc-cga-agg-agg-cg-3'</b>	862
SRT	ccaggaaagcaagtggaggcgigacggg	863
FRET probe	Fcaac(Z21)gcttcgtgg	864
probe	cgc cga gat cac ctt cgg agt ttg ggNH2	865
invader	ggg ttg tgg agt gag tgt tca agt a	866
arrestor	<b>ccc.aaa.ctc.cga.agg.tga.tc</b>	867
SRT	cggaaagaagcagttggtgatctcggcgNH2	868
FRET probe	Fcaac(Cy3)gcttctccg	869

FIGURE 47F

probe	aac gag gcg cac ctt cgg agt ttg gg NH2	3' Amine	870
invader	ggg ttg tgg agt gag tgt tca agt a		871
arrestor	<b>ccc aac ctc cga agg tgc g</b>	<b>all 2'Ome bases</b>	872
SRT	cggagaagcagttggcgccctgtaaNH2	3' last 5 bases 2'Ome, 3' Amine	873
FRET probe	Fcaac(Cy3)gcttctccg		874
probe	ccg tca cgc ctc ctt cgg agt ttg g NH2	3' Amine	875
invader	ggg ttg tgg agt gag tgt tca agt a		876
stacker	<b>ggt tgc ttg tcc agg tgg</b>	<b>all 2'Ome bases</b>	877
arrestor	<b>cca aac tcc gaa gga ggc g</b>	<b>all 2'Ome bases</b>	878
SRT	cggagaagcagttggaggcgtagcggtNH2	3'base 2'Ome, 3'Amine	879
FRET probe	Fcaac(Cy3)gcttctccg		880
probe	ccg tca cgc ctc ctt cgg agt ttg NH2	3' Amine	881
invader	ggg ttg tgg agt gag tgt tca agt a		882
stacker	<b>ggt ttg ctt gtc cag gtg g</b>	<b>all 2'Ome bases</b>	883
arrestor	<b>cca aac tcc gaa gga ggc g</b>	<b>all 2'Ome bases</b>	884
SRT	cggagaagcagttggaggcgtagcggtNH2	3'base 2'Ome, 3'Amine	885
FRET probe	Fcaac(Cy3)gcttctccg		886
probe	ccg tca cgc ctc ctt cgg agt ttNH2	3' Amine	887
invader	ggg ttg tgg agt gag tgt tca agt a		888
stacker	<b>ggg ttg gct tgt cca ggt g</b>	<b>all 2'Ome bases</b>	889
arrestor	<b>cca aac tcc gaa gga ggc g</b>	<b>all 2'Ome bases</b>	890
SRT	cggagaagcagttggaggcgtagcggtNH2	3'base 2'Ome, 3'Amine	891
FRET probe	Fcaac(Cy3)gcttctccg		892
probe	cgtcacgcctccggagttgggNH2	3' Amine	893
invader	ggt gtg gag tga gtg ttc aag tat ta		894
stacker	<b>ttt gct tgt cca ggt ggt cca g</b>	<b>all 2'Ome bases</b>	895
arrestor	<b>ccc aac ctc cgg agg cg</b>	<b>all 2'Ome bases</b>	896
SRT	cggagaagcagttggaggcgtagcggtNH2	3'base 2'Ome, 3'Amine	897
FRET probe	Fcaac(Cy3)gcttctccg		898
probe	cgc cga gat cac cgg agt ttg ggNH2	3' Amine	899
invader	ggt gtg gag tga gtg ttc aag tat ta		900
stacker	<b>ttt gct tgt cca ggt ggt cca g</b>	<b>all 2'Ome bases</b>	901
arrestor	<b>cta gtg gcc tca aac cc</b>	<b>all 2'Ome bases</b>	902
SRT	cggagaagcagttggtagctcgcggtNH2	3' Amine	903
FRET probe	Fcaac(Cy3)gcttctccg		904



FIGURE 47G

<hr/>			
hUbiqutin			
probe	cgc cga gat cac ctt tac att ttc tat cgt	3' Amine	905
probe	cgc cga gat cac ctt tac att ttc tat cgt NH2		906
invader	5' -cct tcc tia tcc tgg atc ttg gca -3'		907
arrestor	<u>acg ata gaa aat gta aag gtg atc</u>	<u>all 2'Ome bases</u>	908
SRT	5'-cgc agt gag aat gag gtg atc tgg gcggt-3'	<u>3' last 3 bases 2'Ome</u>	909
FRET probe	5'-Red-ctc-ZZ1-ttc tca gtg cg-3'		910
<hr/>			
hIL-2			
probe	gtttctttgtgtctccgcactgccNH2	3' Amine	911
invader	cca gca gta aat gct cca gtt gta ga		912
stacker	<u>tag aac ttg aag tag gtg c</u>	<u>all 2'Ome bases</u>	913
arrestor	<u>caa aga aaa cac agg agg c</u>	<u>all 2'Ome bases</u>	914
SRT	ccaggaaagcaagtggaggcgtgacgggu	<u>3' 3bases 2'Ome</u>	915
FRET probe	Fcac(ZZ1)tgctctgtgg		916
<hr/>			
probe	aac gag gog cac ctg tgt ttt ctt tg NH2	3' Amine	917
invader	cca gca gta aat gct cca gtt gta ga		918
stacker	<u>tag aac ttg aag tag gtg c</u>	<u>all 2'Ome bases</u>	919
arrestor	<u>caa aga aaa cac agg tgc g</u>	<u>all 2'Ome bases</u>	920
SRT	ccaggaaagcaagtgtgctgcctcgttt	<u>3' last 3 bases 2'Ome</u>	921
FRET probe	Fcac(ZZ1)tgctctgtgg		922
<hr/>			
probe	cag tca cgc ctc ctc cag ttg tag NH2	3' Amine	923
invader	<u>aaa atc atc tgt aaa tcc agc agt aaa tga</u>	<u>5' 6 bases 2'Ome</u>	924
stacker	<u>ctg tgt ttt ctt tgt aga ac</u>	<u>all 2'Ome bases</u>	925
arrestor	<u>cta caa ctg gag gag gc</u>	<u>all 2'Ome bases</u>	926
SRT	ccaggaaagcaagtggaggcgtgacgggu	<u>3' 3bases 2'Ome</u>	927
FRET probe	Fcac(ZZ1)tgctctgtgg		928
<hr/>			
probe	aac gag gog cac ctc ctc cag ttg tag NH2	3' Amine	929
invader	<u>aaa atc atc tgt aaa tcc agc agt aaa tga</u>	<u>5' 6 bases 2'Ome</u>	930
stacker	<u>ctg tgt ttt ctt tgt aga ac</u>	<u>all 2'Ome bases</u>	931
arrestor	<u>cta caa ctg gag gag cg</u>	<u>all 2'Ome bases</u>	932
SRT	ccaggaaagcaagtgtgctgcctcgttt	<u>3' last 3 bases 2'Ome</u>	933
FRET probe	Fcac(ZZ1)tgctctgtgg		934

FIGURE 47H

probe	ccg tca cgc ctc ctg tgt ttt ctt tgt aNH2	3' Amine	935
invader	gta aat cca gca gta aat gct cca gtt gta ga		936
stacker	<b><u>gaa ctt gaa gta ggt gca ctg tt</u></b>	<b><u>all 2'Ome bases</u></b>	937
arrestor	<b><u>tacaagaacacacacagggcgctNH2</u></b>	<b><u>all 2'Ome bases, 3' amine</u></b>	938
SRT	ccaggagcaagtgaggcggaacggu	<b><u>3' bases 2'Ome</u></b>	939
FRET probe	Fcac(Z21)tgctctgtgg		940
probe	aac gag gcg cac ctg tgt ttt ctt tgt aNH2	3' Amine	941
invader	gla aat cca gca gta aat gct cca gtt gta ga		942
stacker	<b><u>gaa ctt gaa gta ggt gca ctg tt</u></b>	<b><u>all 2'Ome bases</u></b>	943
arrestor	<b><u>tac aaa gaa aac aca ggt gcg</u></b>	<b><u>all 2'Ome bases</u></b>	944
SRT	ccaggagcaagtgaggcgctctgttt	<b><u>3' last 3 bases 2'Ome</u></b>	945
FRET probe	Fcac(Z21)tgctctgtgg		946
probe	ccg tca cgc ctc ctc cag ttg taa NH2	3' Amine	947
probe	ccg tca cgc ctc ctc cag ttg tat NH2	3' Amine	948
probe	ccg tca cgc ctc ctc cag ttg tac NH2	3' Amine	949
invader	<b><u>aaa atc atc tgt aaa tcc agc agt aaa tga</u></b>	<b><u>5' 6 bases 2'Ome</u></b>	950
stacker	<b><u>ctg tgt ttt ctt tgt aga ac</u></b>	<b><u>all 2'Ome bases</u></b>	951
arrestor	<b><u>cta caa ctg gag gag gc</u></b>	<b><u>all 2'Ome bases</u></b>	952
SRT	ccaggagcaagtgaggcggaacggu	<b><u>3' bases 2'Ome</u></b>	953
FRET probe	Fcac(Z21)tgctctgtgg		954
probe	gcc gtc acg cct ccc ttc ttg atg NH2	3' Amine	955
invader	ttc tag aca ctg aag atg ttt cag ttc tgt gga		956
arrestor	<b><u>cat gcc caa gaa ggg agg cg NH2</u></b>	<b><u>all 2'Ome bases, 3' Amine</u></b>	957
SRT	cggaagaacagtgaggcggaacgctNH2	<b><u>3'2 bases 2'Ome, 3' Amine</u></b>	958
FRET probe	Fcaac(Cy3)gcttctccg		959
probe	ccg tca cgc ctc taa ttc cat tca aaa tca tct NH2	3' Amine	960
invader	cat cct ggt gag ttt ggg att ctt gta att tat a		961
stacker	<b><u>gta aat cca gca gta aat gct cca gNH2</u></b>	<b><u>all 2'Ome bases, 3' Amine</u></b>	962
arrestor	<b><u>aga tga ttt tga atg gaa tta gag gcg NH2</u></b>	<b><u>all 2'Ome bases, 3' Amine</u></b>	963
SRT	cggaagaacagtgaggcggaacgctNH2	<b><u>3'2 bases 2'Ome, 3' Amine</u></b>	964
FRET probe	Fcaac(Cy3)gcttctccg		965
probe	ccg ccg aga tca cct gtc ttt tct ttg ta		966
invader	gla aat cca gca gta aat gct cca gtt gta ga		967
stacker	<b><u>gaa ctt gaa gta ggt gca ctg tt</u></b>	<b><u>All 2' Ome</u></b>	968
stacker	gaa ctt gaa gta ggt gca ctg tt		969

FIGURE 47I

stacker	<b>gaa</b> ctt gaa gla ggt gca ctg tt	5' 3bases 2'Ome	970
stacker	<b>gaa</b> <b>ctt</b> gaa gla ggt gca ctg tt	5' 6bases 2'Ome	971
arrestor	<b>tac</b> <b>aaa</b> <b>gaa</b> <b>aac</b> <b>aca</b> <b>ggt</b> <b>gat</b> <b>ct</b>	All 2' Ome	972
SRT	cggaggagcagcttggtgatctgcgcgNH2	3' 2 last base 2' Ome, 3' Amine	973
FRET probe	Fcaac(Cy3)gcttcctccg		974
probe	aac gag gcg cac cct tct tgg gca tgnH2	3' Amine	975
invader	ttc tag aca ctg aag atg ttt cag ttc tgt gga		976
arrestor	<b>cat</b> <b>gcc</b> <b>caa</b> <b>gaa</b> <b>ggg</b> <b>tcg</b> <b>gNH2</b>	all 2'Ome bases	977
SRT	cggagaagcagcttggtgcgcctcgttaaNH2	3' last 5 bases 2'Ome, 3' Amine	978
FRET probe	Fcaac(Cy3)gcttcctccg		979
probe	aac gag gcg cac taa ttc cat tca aaa tca tct		980
invader	cat cct ggt gag ttt ggg att cti gta att tat a		981
stacker	<b>gta</b> <b>aat</b> <b>cca</b> <b>gca</b> <b>gta</b> <b>aat</b> <b>gct</b> <b>cca</b> <b>gNH2</b>	all 2'Ome bases, 3' Amine	982
arrestor	<b>aga</b> <b>tga</b> <b>ttt</b> <b>tga</b> <b>atg</b> <b>gaa</b> <b>tta</b> <b>gtg</b> <b>gt</b> <b>NH2</b>	all 2'Ome bases, 3' Amine	983
SRT	cggagaagcagcttggtgcgcctcgttaaNH2	3' last 5 bases 2'Ome, 3' Amine	984
FRET probe	Fcaac(Cy3)gcttcctccg		985
hIL-4			
probe	cct gtc tgc ctg cca gtt gtg ttc ttg gag NH2	3' Amine	986
invader	ccc tgc aga agg ttt cct tct a		987
invader	ccc tgc aga tgg ttt cct tct a		988
arrestor	<b>ctc</b> <b>caa</b> <b>gaa</b> <b>cac</b> <b>aac</b> <b>tgg</b> <b>cag</b> <b>cNH2</b>	all 2'Ome bases, 3' Amine	989
arrestor	<b>ctc</b> <b>caa</b> <b>gaa</b> <b>cac</b> <b>aac</b> <b>tgg</b> <b>cag</b> <b>cga</b> <b>NH2</b>	all 2'Ome bases, 3' Amine	990
arrestor	<b>ctc</b> <b>caa</b> <b>gaa</b> <b>cac</b> <b>aac</b> <b>tgg</b> <b>cag</b> <b>cga</b> <b>gaNH2</b>	all 2'Ome bases, 3' Amine	991
SRT	cggaggagcagcttggtgcgcctcggttaaNH2	3' last base 2'Ome, 3' Amine	992
FRET probe	Fcaac(Cy3)gcttcctccg		993
probe	aac gag gcg cac ctt gga ggc agc aaa NH2	3' Amine	994
probe	aac gag gcg cac ctt gga ggc agc aaNH2	3' Amine	995
invader	aag gtt tcc ttc tca gtt gtg tta		996
arrestor	<b>ctt</b> <b>tgc</b> <b>tcg</b> <b>ctc</b> <b>caa</b> <b>ggt</b> <b>gcg</b> <b>NH2</b>	all 2'Ome bases, 3' Amine	997
SRT	cggaggagcagcttggtgcgcctcggttaa NH2	3' last 5 bases 2'Ome, 3' Amine	998
FRET probe	Fcaac(Cy3)gcttcctccg		999
probe	cag tca cgt ctc tgg agg cag caa aga tg NH2	3' Amine	1000
invader	aag gtt tcc ttc tca gtt gtg ttc ta		1001
arrestor	<b>cat</b> <b>ctt</b> <b>tgc</b> <b>tcg</b> <b>ctc</b> <b>cag</b> <b>aga</b> <b>cg</b> <b>NH2</b>	all 2'Ome bases, 3' Amine	1002

FIGURE 47J

SRT	gctactgagatgaagagacgtgacgtatNH2	3' Amine	1003
FRET probe	Fcttc(Cy3)tcctagtagc		1004
probe	aac gag gcg cac ctt gga ggc agc aaa g NH2		1005
invader	aag gtt tcc ttc tca gtt gtt tta	3' Amine	1006
arrestor	<u>ctt tgc tgc ctc caa ggt ggc NH2</u>	<u>all 2'Ome bases, 3' Amine</u>	1007
SRT	cggaggaagcagttggtgcctcgttaa	3' last 5 bases 2'Ome	1008
FRET probe	Fcaac(Cy3)gcttctctccg		1009
<hr/>			
mIL-2			
probe	cgc cga gat cac ccc ttg agt ttg aca aca gNH2	3' Amine	1010
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1011
arrestor	<u>act gtt gta aaa cta aag ggg gfg atc t NH2</u>	<u>all 2'Ome bases, 3' Amine</u>	1012
SRT	cggaggaagcgttgggtgctcggcgNH2	3' last two bases are 2' Ome , 3' Amine	1013
FRET probe	Fcaac(Cy3)gcttctctccg		1014
probe	tgc cgc cga gat cac ccc ttg agt ttg aca aca gNH2	3' Amine	1015
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1016
arrestor	<u>act gtt gta aaa cta aag ggg gfg NH2</u>	<u>all 2'Ome bases, 3' Amine</u>	1017
arrestor	<u>act gtt gta aaa cta aag ggg gfg at NH2</u>	<u>all 2'Ome bases, 3' Amine</u>	1018
arrestor	<u>act gtt gta aaa cta aag ggg gfg at cNH2</u>	<u>all 2'Ome bases, 3' Amine</u>	1019
arrestor	<u>act gtt gta aaa cta aag ggg gfg at ctcgNH2</u>	<u>all 2'Ome bases, 3' Amine</u>	1020
SRT	cggaggaagcgttgggtgctcggcgcaNH2	3' Last 2bases 2'Ome, 3' Amine	1021
FRET probe	Fcaac(Cy3)gcttctctccg		1022
probe	gc cgc cga gat cac ccc ttg agt ttg aca aca gNH2	3' Amine	1023
probe	c cgc cga gat cac ccc ttg agt ttg aca aca gNH2	3' Amine	1024
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1025
arrestor	<u>act gtt gta aaa cta aag ggg gfg at NH2</u>	<u>all 2'Ome bases, 3' Amine</u>	1026
SRT	cggaggaagcgttgggtgctcggcgcaNH2	3' Last 2bases 2'Ome, 3' Amine	1027
FRET probe	Fcaac(Cy3)gcttctctccg		1028
probe	aac gag gcg cac ccc ttg agt ttg aca aca gt NH2	3' Amine	1029
invader	gaa ttg gca ctc aaa tgt gtt gtc aga ga		1030
arrestor	<u>agtaactgtttgtaaaactaaagggtgtcg</u>	<u>all 2'Ome bases, 3' Amine</u>	1031
SRT	cggaggaagcagttggtgcctcgttaa	3' last 5 bases 2'Ome	1032
FRET probe	Fcaac(Cy3)gcttctctccg		1033
probe	aac gag gcg cac ccc ttg agt ttg aca aca gt NH2	3' Amine	1034

**FIGURE 47K**

invader	arrestor	SRT	FRET probe
gaa ttg gca ctc aaa tgt gtt gtc aga gaa	agt aac tct tct tct aaa act aaa ggg gtc cg_NH2	cggaggagcagttggtgcgcctcgttaa	Fcaac(Cy3)gcttcctccg
probe			
invader	gaa ttg gca ctc aaa tgt gtt gtc aga gaa	cggtaaacactaaaggaggcg	Fcaac(Cy3)gcttcctccg
stacker	agt tac tct gat att gct gat gaa att ctc ag		
arrestor	ggtgtaaacactaaaggaggcg		
SRT	cgggaagcagttgaggcggtgacggtNH2		
FRET probe	Fcaac(Cy3)gcttcctccg		
probe			
invader	gaa ttg gca ctc aaa tgt gtt gtc aga gaa	cggtaaacactaaaggaggcg	Fcaac(Cy3)gcttcctccg
stacker	agt tac tct gat att gct gat gaa att ctc ag		
arrestor	ggtgtaaacactaaaggaggcg		
SRT	cgggaagcagttgaggcggtgacggtNH2		
FRET probe	Fcaac(Cy3)gcttcctccg		
probe			
invader	gaa ttg gca ctc aaa tgt gtt gtc aga gaa	cggtaaacactaaaggaggcg	Fcaac(Cy3)gcttcctccg
stacker	cagttactctgatattgctgatgaaattctca		
arrestor	ggtgtaaacactaaaggaggcg		
SRT	cgggaagcagttgaggcggtgacggtNH2		
FRET probe	Fcaac(Cy3)gcttcctccg		
probe			
invader	gaa ttg gca ctc aaa tgt gtt gtc aga gaa	cggtaaacactaaaggaggcg	Fcaac(Cy3)gcttcctccg
stacker	cagttactctgatattgctgatgaaattctca		
arrestor	ggtgtaaacactaaaggaggcg		
SRT	cgggaagcagttgaggcggtgacggtNH2		
FRET probe	Fcaac(Cy3)gcttcctccg		
probe			
invader	gaa ttg gca ctc aaa tgt gtt gtc aga gaa	cggtaaacactaaaggaggcg	Fcaac(Cy3)gcttcctccg
stacker	cagttactctgatattgctgatgaaattctca		
arrestor	ggtgtaaacactaaaggaggcg		
SRT	cgggaagcagttgaggcggtgacggtNH2		
FRET probe	Fcaac(Cy3)gcttcctccg		
probe			
invader	gaa ttg gca ctc ccc tta gct aag at NH2	cggtaaacactaaaggaggcg	Fcaac(Cy3)gcttcctccg
stacker	cga ggt tt cca agg agt tgt tta		
arrestor	ccc tgg atc aga ttt aga gag c		
SRT	atc tta gct aac ggg agg cg		
FRET probe	cgggaagcagttgaggcggtgacggtNH2		
probe			
invader	gaa ttg gca ctc ccc tta gct aag at NH2	cggtaaacactaaaggaggcg	Fcaac(Cy3)gcttcctccg
stacker	cga ggt tt cca agg agt tgt tta		
arrestor	ccc tgg atc aga ttt aga gag c		
SRT	atc tta gct aac ggg agg cg		
FRET probe	cgggaagcagttgaggcggtgacggtNH2		

FIGURE 47L

"Replacement Sheet"

FRET probe	Fcaac(Cy3)gcttcctccg	1068
probe	ccg tca cgc ctc agt tgt ttc cgt tNH2	1069
invader	aga ggt aca aac gag gtt ttc caa ggc	1070
stacker	<u>agc taa gat ccc tgg atc aga ttt aga ga</u>	1071
arrestor	<u>aac gga aac aac tga ggc g</u>	1072
SRT	ccaggaagcaagtgaggcgtgacggu	1073
FRET probe	Fcac(Z21)tgcttcgttg	1074
probe	ccg tca cgc ctc ccg tta gct aNH2	1075
invader	caa acg agg ttt tcc aag gag ttg a	1076
stacker	<u>aga tcc ctg gat cag att tag aga gct c</u>	1077
arrestor	<u>tag cta acc gaa aga ggc g</u>	1078
SRT	ccaggaagcaagtgaggcgtgacggu	1079
FRET probe	Fcac(Z21)tgcttcgttg	1080
probe	ccg tca cgc ctc ccg tta gNH2	1081
invader	aga ggt aca aac gag gtt ttc caa gga ga	1082
stacker	<u>cta aga tcc ctg gat cag att tag aga g</u>	1083
arrestor	<u>ctaacggaacaagagggcg</u>	1084
SRT	ccaggaagcaagtgaggcgtgacggu	1085
FRET probe	Fcac(Z21)tgcttcgttg	1086
hIFN- $\gamma$		
probe	aac gag gcg cac ctt acc aat gcc taa gaa aag agt tNH2	1087
invader	tgc att att ttt ctg tca ctc tcc tct ttc caa tta	1088
arrestor	<u>aac tct ttt ctt agg cat ttt gaa ggt gcg NH2</u>	1089
SRT	cgagggaagcagttgtgcgcctcgttaaNH2	1090
FRET probe	Fcaac(Cy3)gcttcctccg	1091
probe	cag tca cgt ctc tct tca aaa tgc cta aga aaa gag tNH2	1092
invader	tct gca tta ttt ttc tgt cac tct ctt tcc aat a	1093
arrestor	<u>act ctt ttc tta ggc att ttg aag aga gac gNH2</u>	1094
SRT	<u>gctactgagatgaagagacgtgactgtatNH2</u>	1095
FRET probe	Fcttc(Cy3)tcacagtagc	1096
mIFN- $\gamma$		
probe	aac gag gcg cac cct ttt gcc agt tcc NH2	1097
probe	3' Amine	1098
all 2'Ome bases,		1099
all 2'Ome bases,		1100
3' 3bases 2'Ome		1101
3' Amine		1102
all 2'Ome bases,		1103
all 2'Ome bases,		1104
3' 3bases 2'Ome		1105
3' Amine		1106
All 2'Ome		1107
All 2'Ome		1108
3' 3bases 2'Ome		1109
3' Amine		1110
all 2'Ome bases, 3' Amine		1111
3' last 5 bases 2'Ome		1112
3' Amine		1113
all 2'Ome bases, 3' Amine		1114
all 2'Ome bases, 3' Amine		1115
3' Amine		1116

FIGURE 47M

invader	gct ctg cag gat ttt cat gtc acc ata			1098
arrestor	<b>gag gaa ctg gca aaa ggg tgc gNH2</b>		all 2'Ome bases, 3' Amine	1099
SRT	<b>gctactgagatgaaggagacgtgactgtatNH2</b>		all 2'Ome bases, 3' Amine	1100
FRET probe	Fcttc(Cy3)tcagtagc			1101
probe	aac gag gcg cac cct ttt gcc agt NH2		3' Amine	1102
invader	gct ctg cag gat ttt cat gtc acc ata			1103
stacker	<b>tcc tcc aga tat cca aga aga gac tc</b>		all 2'Ome bases	1104
arrestor	<b>act ggc aaa agg cgg gc</b>		all 2'Ome bases	1105
SRT	cgg agg aaag cag ttg gtc cgc ctc guu aa NH2		3' last 5 bases 2'Ome	1106
SRT	cgg aag aaag cag ttg gtc cgc ctc guu aa NH2		3' last 5 bases 2'Ome	1107
FRET probe	Fcaac(Cy3)gcttcctccg			1108
probe	gcc gca cgc cgc ctt ttg cca gt NH2		3' Amine	1109
invader	gct ctg cag gat ttt cat gtc acc ata			1110
stacker	<b>tcc tcc aga tat cca aga aga gac tc</b>		all 2'Ome bases	1111
arrestor	<b>act ggc aaa agg cgg gc</b>		all 2'Ome bases	1112
SRT	cgg agg aag cag ttg cgg cgt gcg gca NH2			1113
FRET probe	Fcaac(Cy3)gcttcctccg			1114
probe	aac gag gcg cac cct ttt gcc agt tc NH2		3' Amine	1115
invader	gct ctg cag gat ttt cat gtc acc ata			1116
stacker	<b>ctc cag ata tcc aag aag aga ctc</b>		all 2'Ome bases	1117
arrestor	<b>gaa ctg gca aaa ggg tgc g</b>		all 2'Ome bases	1118
SRT	cggaggagcagttggtgcgcctgttaaNH2		3' last 5 bases 2'Ome	1119
FRET probe	Fcaac(Cy3)gcttcctccg			1120
hIL-8				
probe	cgg tca cgc ctc ctt ggc aaa act gca ccNH2		3' Amine	1121
probe	cgg tca cgc ctc ctt ggc aaa act gca cca NH2		3' Amine	1122
invader	ctt tat gca ctg aca tct aag ttc ttt agc act ca			1123
arrestor	<b>tgg tgc agt ttt gcc aag gag ggc ggc NH2</b>		all 2'Ome bases, 3' Amine	1124
arrestor	<b>tgg tgc agt ttt gcc aag gag ggc tg NH2</b>		all 2'Ome bases, 3' Amine	1125
SRT	cggagaagcagttgagggcgtgacggcNH2		3' 2 bases 2'Ome, 3' Amine	1126
FRET probe	Fcaac(Cy3)gcttcctccg			1127
probe	cgg tca cgc ctc cat ctt cac tga ttc ttg gNH2		3' Amine	1128
probe	cgg tca cgc ctc cat ctt cac tga ttc ttg gNH2		3' Amine	1129
invader	agt gtt gaa gta gat ttt ctt gaa gtt tca ctg ga			1130

FIGURE 47N

stacker	<b>gat acc aca gag aat gaa tttt</b>	<b>all 2'Ome bases</b>	1131
arrestor	<b>tcc aag aat cag tga aga tgg agg cg NH2</b>	<b>all 2'Ome bases, 3' Amine</b>	1132
arrestor	<b>tcc aag aat cag tga aga tgg agg cgt gNH2</b>	<b>all 2'Ome bases, 3' Amine</b>	1133
arrestor	<b>g aat cag tga aga tgg agg cg</b>	<b>all 2'Ome bases</b>	1134
SRT	<b>cggaagaagcagttggaggcgtgacgcgNH2</b>	<b>3'2 bases 2'Ome, 3' Amine</b>	1135
FRET probe	<b>Fcaac(Cy3)gcttcctccg</b>		1136
probe	<b>cgc tca cgc cct tgg ctc aat ttt gct NH2</b>	<b>3' Amine</b>	1137
invader	<b>cca ttc aat tcc tga aat taa agt tgc gat att ctc ttg gca</b>		1138
invader	<b>cc tga aat taa agt tgc gat att ctc ttg gca</b>	<b>5' 10 bases are 2'Ome</b>	1139
invader	<b>cc tga aat taa agt tgc gat att ctc ttg gca</b>		1140
arrestor	<b>agc aaa att gag cca agg gag gcg NH2</b>	<b>all 2'Ome bases, 3' Amine</b>	1141
arrestor	<b>agc aaa att gag cca agg gag gcg tgnNH2</b>	<b>all 2'Ome bases, 3' Amine</b>	1142
SRT	<b>cggaagaagcagttggaggcgtgacgcgNH2</b>	<b>3'2 bases 2'Ome, 3' Amine</b>	1143
FRET probe	<b>Fcaac(Cy3)gcttcctccg</b>		1144
probe	<b>cgc tca cgc ctc cat ctt cac tga ttc ttg NH2</b>	<b>3' Amine</b>	1145
invader	<b>ttc tag caa acc cat tca att cct gaa att aaa gtt cgg ata ttc ta</b>		1146
invader	<b>cc cat tca att cct gaa att aaa gtt cgg ata ttc ta</b>	<b>5' 10 bases 2'Ome</b>	1147
invader	<b>cc cat tca att cct gaa att aaa gtt cgg ata ttc ta</b>		1148
arrestor	<b>cca agg gcc aag gag gcg tNH2</b>		1149
SRT	<b>cggaagaagcagttggaggcgtgacgcgNH2</b>	<b>3'2 bases 2'Ome, 3' Amine</b>	1150
FRET probe	<b>Fcaac(Cy3)gcttcctccg</b>		1151
probe	<b>cgc tca cgc ctc cat ctt cac tga ttc NH2</b>	<b>3' Amine</b>	1152
invader	<b>agt gtt gaa gla gat ttg ctt gaa gtt tca ctg ga</b>		1153
stacker	<b>ttg gat acc aca gag aat gaa tt</b>	<b>all 2'Ome bases</b>	1154
SRT	<b>cggaagaagcagttggaggcgtgacgcgNH2</b>	<b>3'base 2'Ome, 3' Amine</b>	1155
FRET probe	<b>Fcaac(Cy3)gcttcctccg</b>		1156
probe	<b>cgc tca cgc ctc cat ctt cac tga tt NH2</b>	<b>3' Amine</b>	1157
invader	<b>agt gtt gaa gla gat ttg ctt gaa gtt tca ctg ga</b>		1158
stacker	<b>ctt gga tac cac aga gaa tga att</b>		1159
SRT	<b>cggaagaagcagttggaggcgtgacgcgNH2</b>	<b>3'base 2'Ome, 3' Amine</b>	1160
FRET probe	<b>Fcaac(Cy3)gcttcctccg</b>		1161
probe	<b>cgc tca cgc ctc cat ctt cac tga ttc ttg NH2</b>	<b>3' Amine</b>	1162
invader	<b>agt gtt gaa gla gat ttg ctt gaa gtt tca ctg ga</b>		1163
helper	<b>ata-cca-cag-aga-atg-aat-ttt-ttt-atg</b>	<b>all 2'Ome bases</b>	1164
arrestor	<b>tcc aag aat cag tga aga tgg agg cgt gNH2</b>	<b>all 2'Ome bases, 3' Amine</b>	1165



FIGURE 470

SRT FRET probe	cggaagaagcagttggaggcgtagcgg <del>tt</del> NH2 Fcaac(Cy3)gcttcctccg	3'base <b>2'Ome</b> , 3'Amine	1166 1167
SRT FRET probe	cggaagaagcagttggtagctcgcggcggNH2 Fcaac(Cy3)gcttcctccg	3' Amine	1168 1169
SRT FRET probe	cggaagaagcagttggaggcgtagcgg <del>tt</del> NH2 Fcaac(Cy3)gcttcctccg	3'base <b>2'Ome</b> , 3'Amine	1170 1171
SRT FRET probe	ccaggaagcaagtgaggcgtagcgg <del>u</del> Fcac(Z21)tgcttcgtgg	3' 3bases 2'Ome	1172 1173
SRT FRET probe	cggaggaaagcagttggtagctcgcggcggNH2 Fcaac(Cy3)gcttcctccg	3' 2 last base <b>2'Ome</b> , 3' Amine	1174 1175
SRT FRET probe	cggagaagcagttggaggcgtagcggcNH2 Fcaac(Cy3)gcttcctccg	3'2 bases <b>2'Ome</b> , 3'Amine	1176 1177
SRT FRET probe	ccaggaagcaagtggtgcgcctcgttt Fcac(Z21)tgcttcgtgg	3' last 3 bases <b>2'Ome</b>	1178 1179
SRT FRET probe	cggaggaaagcagttggtagcgcctcgttaaNH2 Fcaac(Cy3)gcttcctccg	3' last5 bases 2'Ome	1180 1181
SRT FRET probe	cggaggaaagcagttggtagctcgcggcgcaNH2 Fcaac(Cy3)gcttcctccg	3' Last 2bases 2'Ome, 3' Amine	1182 1183
SRT FRET probe	gctactgagatgaaggagacgtgactgtatNH2 Fcttc(Cy3)tcicagtagc	3' Amine	1184 1185
SRT FRET probe	ccaggaagcagttggaggcgtagcgg <del>tt</del> NH2 Fcaac(Cy3)gcttcgtgg	3' 2 bases <b>2'Ome</b> , 3'Amine	1186 1187
h3A4 probe h3A4 invader Capture Sequence	agg agc cac tcc att gga tga agc atg tac aga atc ccc ggt tat tta tgc aga		1188 1189

FIGURE 47P

h3A4 probe	glg gcg tat cac aga caa tga gag	1190
h3A4 invader	cct cct tta tat tcc caa gta taa cac tct aa	1191
Capture Sequence		
Set 2/Set 3		
h3A4 probe	AAC GAG GCG CAC CAC AGA CAA TGA GAG	1192
h3A4 arrestor	<b>CCTCATTCGTCGTCGTCG-NH2</b>	1193
h3A4 invader	cct cct tta tat tcc caa gta taa cac tct aa	1194
h3A4 stacking oligo	agctcaatgcatgtacagaatccccgg	1195
h3A4 stacking oligo	<b>agctcaatgcatgtacagaatccccgg</b>	1196
SRT		
FRET Oligo		
Set 4		
h3A4 probe	aac gag gcg cac cac aga caa tga gag ag-NH2	1197
h3A4 arrestor	<b>ctc tct cat tgt ctg tgg tgc g-NH2</b>	1198
h3A4 invader	cct cct tta tat tcc caa gta taa cac tct aa	1199
h3A4 stacking oligo	<b>ctc aat gca tgt aca gaa tcc ccg gtt</b>	1200
SRT		
FRET Oligo		
Set 5		
h3A4 probe	aac gag gcg cac cac aga caa tga gag agc t-NH2	1201
h3A4 arrestor	<b>agg tct ctc att gtc tgt ggt gcg-NH2</b>	1202
h3A4 invader	cct cct tta tat tcc caa gta taa cac tct aa	1203
SRT		
FRET probe	FL-caa-c(cy3)g-cit-cct-ccg	1204
Set 6		
h3A4 probe	aac gag gcg cac cac aga caa tga gag agc-NH2	1205
h3A4 arrestor	<b>gct ctc tca ttg tct gtg gtc cg-NH2</b>	1206
h3A4 invader	cct cct tta tat tcc caa gta taa cac tct aa	1207
SRT		
FRET probe	FL-caa-c(cy3)g-cit-cct-ccg	1208
Set 7/Set 8		
h3A4 probe	aac gag gcg cac cac aga caa tga gag a-NH2	1209
h3A4 probe	aac gag gcg cac cac aga caa tga gag a	1210
h3A4 arrestor	<b>tct ctc att gtc tgt ggt gcg c-NH2</b>	1211
h3A4 stacking oligo	<b>gct caa tgc atg tac aga atc ccc ggt t</b>	1212

FIGURE 47Q

h3A4 invader SRT FRET Oligo	cct cct tta tat tcc caa gta taa cac tct aa	1213
Set 9		
h3A4 probe	aac gag gcg cac cac aga caa tga ga-NH2	1214
h3A4 arrestor	<b>tct cat tgt ctg tgg tgc gc-NH2</b>	1215
h3A4 invader	cct cct tta tat tcc caa gta taa cac tct aa	1216
h3A4 stacking oligo SRT FRET Oligo	gag ctc aat gca tgt aca gaa tcc ccg	1217
Set 1/Set 2		
h3A4 probe	AACGAGGCGCACCTCTTATCAGAGCTC	1218
h3A4 probe	AACGAGGCGCACCTCTTATCAGAGCTC-NH2	1219
h3A4 invader	tig tgg agg aaa tta ttg aga aat gtt gat ta	1220
h3A4 arrestor SRT	<b>GAGCTCTGATAAGAGGGIGCG-NH2</b>	1221
Set 1/ Set 2/ Set 3		
h3A4 probe	cgg tca cgc ctc gcc cca ca - NH2	1222
h3A4 arrestor	<b>tgt ggg gcg agg cg</b>	1223
h3A4 invader	cag cac agg ctg ttg acc atc ata aaa c	1224
h3A4 stacking oligo	<b>cuu-uuc-cau-acu-uuu-uau-gac-auu-c</b>	1225
h3A4 stacking oligo	ctt ttc cag act tt tat gac att c	1226
h3A4 stacking oligo SRT FRET	<b>ctt ttc cag act tt tat gac</b>	1227
Set 4/Set 5		
h3A4 probe	cgg tca cgc ctc gcc cca ca	1228
h3A4 probe	cgg tca cgc ctc gcc cca ca - HEX	1229
h3A4 invader	cag cac agg ctg ttg acc atc ata aaa c	1230
h3A4 stacking oligo SRT FRET	<b>cuu-uuc-cau-acu-uuu-uau-gac-auu-c</b>	1231
Set 6/ Set 7/ Set 8		
h3A4 probe	cgg tca cgc ctc gcc cca cc - NH2	1232

FIGURE 47R

h3A4 probe	cgc tca cgc ctc gcc cca cg - NH2	1233
h3A4 probe	cgc tca cgc ctc gcc cca ct - NH2	1234
h3A4 arrestor	<b>tgt ggg gcg agg cg</b>	1235
h3A4 invader	cag cac agg ctg ttg acc atc ata aaa c	1236
h3A4 stacking oligo	<b>cuu-uuc-cau-acu-uuu-uau-gac-auu-c</b>	1237
SRT		
FRET		
Set 1		
h3A4 probe	cgc tca cgc ctg atc ata aaa gcc c - NH2	1238
h3A4 arrestor	<b>ggg ctt tta tga tca ggc g</b>	1239
h3A4 invader	cag cac agg ctg ttg acc c	1240
h3A4 stacking oligo	<b>cac act ttt cca tac ttt tta tg</b>	1241
SRT		
FRET		
Set 2		
h3A4 probe	aac gag gcg cac cca ttg gat gaa g - NH2	1242
h3A4 arrestor	<b>ctt cat cca atg ggt gcg c</b>	1243
h3A4 invader	gta cag aat ccc cgg tta ttt atg cag ta	1244
h3A4 stacking oligo	<b>ccc atc ttc att tca gag</b>	1245
SRT		
FRET		
Set 1		
h3A5 probe	gtg gcg tat cgt gtc taa ttt caa g	1246
h3A5 invader	aat ggg ttt ttc tgg ttg aag aag tcc ttg a	1247
Capture Sequence		
Set 2/Set 3		
h3A5 probe	AACGAGGCGCACCGTGCTAATTTC AAG	1248
h3A5 probe	AACGAGGCGCACCGTGCTAATTTC AAGG-Pi	1249
h3A5 arrestor	<b>CTTGAATTAGACACGGTGCG-NH2</b>	1250
h3A5 invader	aat ggg ttt ttc tgg ttg aag aag tcc ttg a	1251
SRT		
FRET		
Set 4		
h3A5 probe	AACGAGGCGCACCGTGCTAATTTC AAG	1252
h3A5 arrestor	<b>CTTGAATTAGACACGGTGCG-NH2</b>	1253

FIGURE 47S

h3A5 invader	aat ggg ttt ttc tgg ttg aag aag tcc ttg a	1254
h3A5 stacking oligo	ggg atc tgt gtt tct tta caa ggt	1255
SRT		
FRET		
Set 5		
h3A5 probe	AACGAGGCGCACCGTGCTAATTTC AAG	1256
h3A5 arrestor	<u>ctt gaa att aga cac ggt tct c</u>	1257
h3A5 invader	ggt ttt tct ggt tga aga agt cct tga	1258
h3A5 stacking oligo	<u>ggg atc tct gtt tct</u>	1259
SRT		
FRET		
Set 6		
h3A5 probe	AACGAGGCGCACCGTGCTAATTTC AAGG-NH2	1260
h3A5 arrestor	<u>CCCTTGAAATTAGACACGGTGCG-NH2</u>	1261
h3A5 invader	aat ggg ttt ttc tgg ttg aag aag tcc ttg a	1262
SRT		
FRET probe	FL- <u>caa-c(cy3)g-ctt-cct-ccg</u>	1263
Set 7/Set 8		
h3A5 probe	aac gag gcg cac cgt gtc taa ttt caa gg-NH2	1264
h3A5 probe	aac gag gcg cac cgt gtc taa ttt caa gg	1265
h3A5 arrestor	<u>cct tga aat tag aca cgg tgc gc-NH2</u>	1266
h3A5 arrestor	<u>cct tga aat tag aca cgg tgc gc</u>	1267
h3A5 invader	aat ggg ttt ttc tgg ttg aag aag tcc ttg a	1268
h3A5 stacking oligo	gga tct gfg ttt ctt tac aag gtt tga agg ag	1269
SRT		
FRET		
Set 9		
h3A5 probe	aac gag gcg cac cgt gtc taa ttt caa-NH2	1270
h3A5 arrestor	<u>tta aaa tta gac acg gtc cgc-NH2</u>	1271
h3A5 invader	aat ggg ttt ttc tgg ttg aag aag tcc ttg a	1272
h3A5 stacking oligo	ggg gat ctg tgt ttc ttt aca agg	1273
SRT		
FRET		
Set 10		
h3A5 probe	aac gag gcg cac cgt gtc taa ttt ca - NH2	1274

FIGURE 47T

h3A5 arrestor	<b>tga aat tag aca cgg tgc gc</b>	1275
h3A5 invader	ggg ttt tct ggt tga aga agt cct tga	1276
h3A5 stacking oligo	<b>agg gga tct gtc ttt ct</b>	1277
SRT		
FRET		
Set 1		
h3A5 probe	tgg cgt atc tga ccc ttt ggg aat	1278
h3A5 invader	gaa gag cat aag ttg gaa tca cca cca ta	1279
Capture Sequence		
Set 1		
h3A5 probe	ata cgg ttg gtc ctc tca agt cta	1280
h3A5 invader	ccc cat tga tt caa cat ctt tct tgc aac	1281
Capture Sequence		
Set 2/Set 3		
h3A5 probe	aac gag gcg cac gcg tgt cta att tc - NH2	1282
h3A5 arrestor	<b>gaa att aga cac gcg tgc gc</b>	1283
h3A5 invader	ggg ttt tct ggt tga aga agt cct tc	1284
h3A5 stacking oligo	<b>ccg ggg atc tgt gtt tc</b>	1285
SRT		
FRET		
h3A5 probe	ccg tca cgc ctc gcg tgt cta att tc -NH2	1286
h3A5 arrestor	<b>gaa att aga cac gcg agg cg</b>	1287
h3A5 invader	ggg ttt tct ggt tga aga agt cct tc	1288
h3A5 stacking oligo	<b>ccg ggg atc tgt gtt tc</b>	1289
SRT		
FRET		
Set 1		
h3A5 probe	aac gag gcg cag ttc ata cgt tcc -NH2	1290
h3A5 arrestor	<b>gga acg tat gaa ctg cgc</b>	1291
h3A5 invader	cca gca cag gga gtt gac ca	1292
h3A5 stacking oligo	<b>cca cat ttt tcc ata ctt t</b>	1293
SRT		
FRET		
Set 2		

FIGURE 47U

h3A5 probe	ccg tca cgc ctg ttc ata cgt tcc -NH2	1294
h3A5 arrestor	<b>gga acg tat gaa cag gcg</b>	1295
h3A5 invader	cca gca cag gga gtt gac ca	1296
h3A5 stacking oligo	<b>cca cat ttt tcc ata ctt t</b>	1297
SRT		
FRET		
<hr/>		
Set 1-Set 4		
h3A5 probe	aac gag gcg cac agt tga cct tca	1298
h3A5 probe	aac gag gcg cac agt tga cct tca	1299
h3A5 probe	aac gag gcg cac agt tga cct tca - HEX	1300
h3A5 arrestor	<b>tga agg tca act gtg cgc</b>	1301
h3A5 invader	gig atg gcc agc aca ggg c	1302
h3A5 stacking oligo	<b>tac gtt ccc cac att ttt c</b>	1303
h3A5 stacking oligo	tac gtt ccc cac att ttt c	1304
SRT		
FRET		
Set 5		
h3A5 probe	ccg tca cgc ctg agt tga cct tca	1305
h3A5 arrestor	<b>tga agg tca act gag gcg</b>	1306
h3A5 invader	gig atg gcc agc aca ggg c	1307
h3A5 stacking oligo	<b>tac gtt ccc cac att ttt c</b>	1308
SRT		
FRET		
Set 6		
h3A5 probe	aac gag gcg cac tcc tct caa gt -NH2	1309
h3A5 arrestor	<b>act tga gag gag tgc gc</b>	1310
h3A5 invader	cca ttg att tca aca tct ttc ttg caa ga	1311
h3A5 stacking oligo	<b>cta ata gca act ggg aat aat c</b>	1312
SRT		
FRET		
Set 7		
h3A5 probe	ccg tca cgc ctg tcc tct caa gt - NH2	1313
h3A5 arrestor	<b>act tga gag gag agg cg</b>	1314
h3A5 invader	cca ttg att tca aca tct ttc ttg caa ga	1315
h3A5 stacking oligo	<b>cta ata gca act ggg aat aat c</b>	1316
SRT		

FIGURE 47V

FRET		
Set 8	aac gag gcg cac agt tga cct tc - NH2	1317
h3A5 probe	<b>tga agg tca act gfg cgc</b>	1318
h3A5 arrestor	gfg atg gcc agc aca ggg c	1319
h3A5 invader	<b>ata cgt tcc sca cat ttt tc</b>	1320
h3A5 stacking oligo		
SRT		
FRET		
Set 1	tgg cgt atc tgg att aaa tct taa aag	1321
h3A7 Probe	gac ttt tat tga gag aac gaa tgg atc taa a	1322
h3A7 Invader		
Capture Oligo		
Set 2	AACGAGGCGCACTGGATTAAATCTTAAAAG	1323
h3A7 Primary Probe	gac ttt tat tga gag aac gaa tgg atc taa a	1324
h3A7 Invader	<b>CTTTAAGATTTAATCCAGTGCG-NH2</b>	1325
h3A7 Arrestor		
SRT		
FRET		
Set 3	AACGAGGCGCACTGGATTAAATCTTAAAAG	1326
h3A7 Primary Probe	gac ttt tat tga gag aac gaa tgg atc taa a	1327
h3A7 Invader	<b>CTTTAAGATTTAATCCAGTGCG-NH2</b>	1328
h3A7 Arrestor	<b>ctt ctt ggt gtt ttc ca</b>	1329
h3A7 Stacking Oligo		
SRT		
FRET		
Set 4	agg agc cac tca tcc ctt gac t	1330
h3A7 Probe	ctt agg gaa atc agg ctc cac tta cgg ta	1331
h3A7 Invader oligo		
Capture Oligo		
Set 5/Set 6	AACGAGGCGCACCTCATCCCTTGACT	1332
h3A7 Primary Probe	AACGAGGCGCACCTCATCCCTTGACT-NH2	1333
h3A7 Primary Probe	<b>AGICAAGGGAIGAGGIGCG-NH2</b>	1334
h3A7 Arrestor	ctt agg gaa atc agg ctc cac tta cgg ta	1335
h3A7 Invader oligo		



SRT	FRET	Probe	Sequence	SRT	FRET
Set 7 - Set 10		h3A7 Primary Probe	aac gag gcg cac ctc atc cct tga c-NH2	1336	
h3A7 Arrestor		h3A7 Invader oligo	<b>gtc aag gga tga ggt ggc c-NH2</b>	1337	
h3A7 Stacking Oligo		h3A7 Stacking Oligo	ctt agg gaa atc agg ctc cac tta cgg ta	1338	
h3A7 Stacking Oligo		h3A7 Stacking Oligo	tca gcc ttg aga aca atg ggt tt tct ggt ag3'	1339	
h3A7 Stacking Oligo		h3A7 Stacking Oligo	<b>tca gcc ttg aga aca atg ggt tt tct g</b>	1340	
h3A7 Stacking Oligo		h3A7 Stacking Oligo	<b>ctc agc ctt tag aac aat ggg tt ttc t</b>	1341	
h3A7 Stacking Oligo		h3A7 Stacking Oligo	<b>ctc agc ctt tag aac aat ggg tt ttc t</b>	1342	
SRT					
FRET					
Set 11		h3A7 Primary Probe	aac gag gcg cac ctc atc cct tga-NH2	1343	
h3A7 Primary Probe		h3A7 Arrestor	ctt agg gaa atc agg ctc cac tta cgg ta	1344	
h3A7 Arrestor		h3A7 Invader oligo	<b>tca agg gat gag gta cgc-NH2</b>	1345	
h3A7 Invader oligo		h3A7 Stacking Oligo	ctt agg gaa atc agg ctc cac tta cgg ta	1346	
h3A7 Stacking Oligo		h3A7 Stacking Oligo	ctc agc ctt tag aac aat ggg tt ttc tgc tag	1347	
SRT					
FRET					
Set 1		h3A7 Probe	ata cgg ttg gta aag taa ttg gag gt	1348	
h3A7 Invader		h3A7 Invader	gaa gcc cgt ctt cat ttc agg gtt cta tt c	1349	
Capture Sequence					
Set 2		h3A7 Primary Probe	AACGAGGCGCACGTAAAGTAATTTGAGGT	1350	
h3A7 Invader		h3A7 Arrestor	gaa gcc cgt ctt cat ttc agg gtt cta tt c	1351	
h3A7 Arrestor		h3A7 Arrestor	<b>ACCTCAAAATACITTTACGTGGC-NH2</b>	1352	
SRT					
FRET					
Set 3		h3A7 Primary Probe	AACGAGGCGCACGTAAAGTAATTTGAGGT	1353	
h3A7 Invader		h3A7 Arrestor	gaa gcc cgt ctt cat ttc agg gtt cta tt c	1354	
h3A7 Arrestor		h3A7 Stacking Oligo	<b>ACCTCAAAATACITTTACGTGGC-NH2</b>	1355	
h3A7 Stacking Oligo		h3A7 Stacking Oligo	<b>ctc tgg tgc tct ggg</b>	1356	

**FIGURE 4 / A**

SRT FRET			
	Set 1		
	h3A7 probe	cgc tca cgc ctc gtc ata aat acc cc - NH2	1357
	h3A7 arrestor	<u>ggg gtc ttg atg acg agg cg</u>	1358
	h3A7 invader	gcc agc ata gcc tgt tga cac	1359
	h3A7 stacking oligo	<u>aga ctt ttc tat act ttg tat aac att c</u>	1360
	SRT		
FRET			
	Set 2 - Set 4		
	h3A7 probe	aac gag gcg cac gtc ata aat acc cc -NH2	1361
	h3A7 probe	aac gag gcg cac gtc ata aat acc cc	1362
	h3A7 probe	aac gag gcg cac gtc ata aat acc cc - HEX	1363
	h3A7 arrestor	<u>ggg gta ttg atg acg tgc gc</u>	1364
	h3A7 invader	gcc agc ata gcc tgt tga cac	1365
	h3A7 stacking oligo	<u>aga ctt ttc tat act ttg tat aac att c</u>	1366
	SRT		
FRET			
	Set 1		
	h3A7 probe	cgc tca cgc ctc gat taa atc tta aaa gct t - NH2	1367
	h3A7 arrestor	<u>aag ctt tta aga ttg aat cga ggc g</u>	1368
	h3A7 invader	gac ttg tat tga gag aac gaa tgg atc taa tgc	1369
	h3A7 stacking oligo	<u>ctt ggt gtt ttc cac aaa g</u>	1370
	SRT		
FRET			
	Set 2		
	h3A7 probe	aac gag gcg cac gat taa atc tta aaa gct t -NH2	1371
	h3A7 arrestor	<u>aag ctt tta aga ttg aat cgt gcg c</u>	1372
	h3A7 invader	gac ttg tat tga gag aac gaa tgg atc taa tgc	1373
	h3A7 stacking oligo	<u>ctt ggt gtt ttc cac aaa g</u>	1374
	SRT		
FRET			
	Set 1		
	h3A7 probe	cgc tca cgc ctg tca tcc ctt g - NH2	1375
	h3A7 arrestor	<u>caa ggg atg cac ggc g</u>	1376

FIGURE 47Y

h3A7 invader	gga aat cag gct cca ctt acg gtc a	1377
h3A7 stacking oligo	<b>act cag cct tta gaa caa tg</b>	1378
SRT		
FRET		
Set 1		
h3A7 probe	ccg tca cgc ctc taa agt aat ttg agg tc - NH2	1379
h3A7 arrestor	<b>gac ctc aaa tta ctt tag agg cg</b>	1380
h3A7 invader	cgt ctt cat ttc agg gtt cta ttt ga	1381
h3A7 stacking oligo	<b>tct ggt gtt ctg gg</b>	1382
SRT		
FRET		
Set 2		
h3A7 probe	aac gag gcg cac taa agt aat ttg agg tc - NH2	1383
h3A7 arrestor	<b>gac ctc aaa gga ctt tag tgc gc</b>	1384
h3A7 invader	cgt ctt cat ttc agg gtt cta ttt ga	1385
h3A7 stacking oligo	<b>tct ggt gtt ctg gg</b>	1386
SRT		
FRET		
Set 1		
r4A1 Probe	tgg-cgt-atc-tag-gct-ttg-ctt-cc	1387
r4A1 Invader	ttc atg tag tca ggg tca tag aca att aag a	1388
Capture Sequence		
Set 2		
r4A1 Primary Probe	AACGAGGCGCACTAGGCTTTGCTTCC	1389
r4A1 Arrestor	<b>GGAAGCAAAGCCTAGTGCG-NH2</b>	1390
r4A1 Arrestor	<b>gga agc aaa gcc tag tgc gc-NH2</b>	1391
r4A1 Invader	ttc atg tag tca ggg tca tag aca att aag a	1392
FRET Probe 1		
Set 3		
r4A1 Primary Probe	aac gag gcg cac tag gct ttg ctt ccc-NH2	1393
r4A1 Arrestor	<b>ggg aag caa agc cta gtg cgc-NH2</b>	1394
r4A1 Invader	ttc atg tag tca ggg tca tag aca att aag a	1395
SRT		
FRET Probe 1		

**FIGURE 47Z**

[illegible]

FIGURE 47AA

SRT				
FRET Probe 1				
Set 3				
r4A1 Primary Probe	AACGAGGCGCACGTCCTTGACCTGC-Pi			1418
r4A1 Arrestor	<b>GGCAGGTC</b> AAG <b>AACGIGCG</b> -NH2			1419
r4A1 Invader	agg aga tat gtt gaa aga ttg cta tag agg ac			1420
SRT				
FRET Probe 1				
Set 1				
r4A1 Probe	tgg cgt atc tta gat gga gta agg a			1421
r4A1 Invader	att cct cat aat tca aaa ggg act tag tag gt			1422
Set 2				
r4A1 Primary Probe	AACGAGGCGCACCTTAGATGGAGTAAGGA			1423
r4A1 Arrestor	<b>TCCTTACTCCATCTAAGIGCG</b> -NH2			1424
SRT				
FRET Probe 1				
Set 1				
r4A1 Primary Probe	aac gag gcg cac tgg ata ccc ttg gg-NH2			1425
r4A1 Arrestor	<b>ccc aag ggt atc cag tgc gc</b> -NH2			1426
r4A1 Invader	ggt gga gac cat aaa tgg aga gtg tga cta			1427
SRT				
FRET Probe 1				
Set 1				
r4A2 Probe	aac gag gcg cac agg tgt ctg gag taa aag-NH2			1428
r4A2 Arrestor	<b>ctt tta ctc cag aca cct gfg cgc</b> -NH2			1429
r4A2 Invader	gtc cac gca caa gct ggg ac			1430
SRT				
FRET Probe 1				
Set 1				
r4A2 Probe	aac gag gcg cac aga agg ccc ctt-NH2			1431
r4A2 Arrestor	<b>aag ggg cct tct gfg cgc</b> -NH2			1432
r4A2 Invader	cct tga aca gca cca gaa ala gac tga gca c			1433
r4A2 stacking oligo	gga aga acc cag aga cac cat cc			1434
SRT				

**FIGURE 47AB**

[illegible]

FIGURE 47AC

Set 3			
r4A3 Probe	aac gag gcg cac ttg aca gag tcc-NH2	1454	
r4A3 Probe	aac gag gcg cac ttg aca gag tcc	1455	
rCYP 4A3 Probe	aac gag gcg cac ttg aca gag tcc - HEX	1456	
r4A3 Arrestor	<u>gga ctc tgt caa gtg cgc-NH2</u>	1457	
rCYP 4A3 Arrestor	<u>gga ctc tgt caa gtg cgc</u>	1458	
r4A3 Invader	gct tct ccc att tgt cta gca tta taa	1459	
r4A3 stacking oligo	gcc atg att ttg aca tag ggt ttg agg atg	1460	
SRT			
FRET Probe 1			
Set 1			
r2B1 probe	cgg agc ctc tgc ggt cat caa g	1461	
r2B1 invader	tgg ata act gca tca gtg tat ggc att tta a	1462	
Capture Sequence			
Set 2/ Set 3			
r2B1 probe	gtg-gcg-tat-ctg-cgg-tca-tca-ag	1463	
r2B1 probe	gtg-gcg-tat-ctg-cgg-tca-tca-a	1464	
r2B1 invader	tgg ata act gca tca gtg tat ggc att tta a	1465	
Capture Sequence			
Set 4			
r2B1 probe	tg-gcg-tat-ctg-cgg-tca-tca-a	1466	
r2B1 invader	tgg ata act gca tca gtg tat ggc att tta a	1467	
Capture Sequence			
Set 5 - Set 7			
r2B1 probe	aac-gag-gcg-cac-ctg-cgg-tca-tca-a	1468	
r2B1 arrestor	<u>ttg-atg-acc-gca-ggt-gcg-cc-NH2</u>	1469	
r2B1 arrestor	<u>ttg-atg-acc-gca-ggt-gcg-cc-Pi</u>	1470	
r2B1 arrestor	<u>ttg-atg-acc-gca-ggt-gcg-cc-OH</u>	1471	
r2B1 invader	tgg ata act gca tca gtg tat ggc att tta a	1472	
SRT			
FRET			
Set 8			
r2B1 probe	aac-gag-gcg-cac-ctg-cgg-tca-tca-a	1473	

FIGURE 47AD

r2B1 arrestor	<b>ttg-atg-acc-gca-ggt-gcg-cc-Pi</b>	1474
r2B1 invader	tgg ata act gca tca tca gtg tat ggc att tta a	1475
r2B1 stacker	ggg ttg gta gcc tgt gtg agc cga t	1476
SRT		
FRET		
Set 9		
r2B1 probe	aac-gag-gcg-cac-ctg-cgg-tca-tca-a-NH2	1477
r2B1 arrestor	<b>ttg-atg-acc-gca-ggt-gcg-NH2</b>	1478
r2B1 invader	tgg ata act gca tca tca gtg tat ggc att tta a	1479
SRT		
FRET		
Set 10		
r2B1 probe	ggc-aac-gag-gca-cac-ctg-cgg-tca-tca-ag-Pi	1480
r2B1 arrestor	<b>ttg-atg-acc-gca-ggt-gcg-cc-Pi</b>	1481
r2B1 invader	tgg ata act gca tca tca gtg tat ggc att tta a	1482
SRT		
FRET		
Set 11		
r2B1 probe	aac gag ggg cac ctg cgg tca tca ag-NH2	1483
r2B1 arrestor	ctt gat gac cgc agg tgc c-NH2	1484
r2B1 invader	tgg ata act gca tca tca gtg tat ggc att tta a	1485
SRT		
FRET		
Set 12		
r2B1 probe	aac gag gcg cac ctg cgg tca tca agg-NH2	1486
r2B1 arrestor	<b>cct tga tga ccg cag gtg cg-NH2</b>	1487
r2B1 invader	tgg ata act gca tca tca gtg tat ggc att tta a	1488
SRT		
FRET		
Set 13		
r2B1 probe	atg acg tga cag acc tgc ggt cat caa g-NH2	1489
r2B1 arrestor	<b>ctt gat gac cgc agg tct gt-NH2</b>	1490
r2B1 invader	tgg ata act gca tca tca gtg tat ggc att tta a	1491
SRT		
FRET		



FIGURE 47AE

Set 14	aac gag gcg cac ctg agg tca tca a-NH2	1492
r2B1 probe	<b>ttg atg acc tca ggt gcg-NH2</b>	1493
r2B1 arrestor	tgg ata act gca tca gtg tat ggc att tta a	1494
r2B1 invader		
SRT		
FRET		
Set 15	cag tca cgt ctg gcg tca tca ag-NH2	1495
r2B1 probe	<b>ctt gat gac cgc agg aga cg-NH2</b>	1496
r2B1 arrestor	tgg ata act gca tca gtg tat ggc att tta a	1497
r2B1 invader		
SRT		
FRET		
Set 16	cag tca cgt ctg act gcg gtc atc aag-NH2	1498
r2B1 probe	gtg gat aac tgc atc agt gla tgg cat ttt c	1499
r2B1 invader	<b>ctt gat gac cgc agt gag acg-NH2</b>	1500
r2B1 arrestor		
SRT		
FRET		
Set 17	cag tca cgt ctg act gcg gtc atc aa-NH2	1501
r2B1 probe	<b>ttg atg acc gca gtg aga cg-NH2</b>	1502
r2B1 arrestor	gtg gat aac tgc atc agt gla tgg cat ttt c	1503
r2B1 invader	ggg ttg gta gcc tgt gtg agc cga t	1504
r2B1 stacker		
SRT		
FRET		
Set 18	cag tca cgt ctg act gcg gtc atc a-NH2	1505
r2B1 probe	<b>tga tga ccg cag tga gac g-NH2</b>	1506
r2B1 arrestor	gtg gat aac tgc atc agt gla tgg cat ttt c	1507
r2B1 invader	agg gtt ggt agc ctg tgt gag ccg a	1508
r2B1 stacker		
SRT		
FRET		
Set 19	cag tca cgt ctg act gcg gtc atc aag-NH2	1509
r2B1 probe		

FIGURE 47AF

r2B1 arrestor	<b>ctt gat gac cgc agt gag acg-NH2</b>	1510
r2B1 invader	gtg gat aac tgc atc agt gla tgg cat ttt c	1511
r2B1 stacker	ggg tgg tag cct gfg tga gcc gat c	1512
SRT		
FRET		
Set 20		
r2B1 probe	cag tca cgt ctc act gcg gtc atc-NH2	1513
r2B1 arrestor	<b>atg acc gca gfg aga cg-NH2</b>	1514
r2B1 invader	gtg gat aac tgc atc agt gla tgg cat ttt c	1515
r2B1 stacker	caa ggg ttg gta gcc tgt gfg agc c	1516
SRT		
FRET		
Set 21		
r2B1 probe	ccg tca cgc ctc act gcg gtc atc a-NH2	1517
r2B1 arrestor	<b>tga tga ccc cag tga ggc g-NH2</b>	1518
r2B1 invader	gtg gat aac tgc atc agt gla tgg cat ttt c	1519
r2B1 stacker	agg gtt ggt agc ctg tgt gag ccg a	1520
SRT		
FRET		
Set 22		
r2B1 probe	ccg tca cgc ctc act gcg gtc atc-NH2	1521
r2B1 arrestor	<b>gat gac cgc agt gag gcg-NH2</b>	1522
r2B1 invader	gtg gat aac tgc atc agt gla tgg cat ttt c	1523
r2B1 stacker	aag ggt tgg tag ccg gfg tg	1524
Set 23		
r2B1 probe	ccg tca cgc ctc act gcg gtc atc-NH2	1525
r2B1 probe	ccg tca cgc ctc act gcg gtc at	1526
r2B1 arrestor	<b>atg acc gca gfg agg cg-NH2</b>	1527
r2B1 invader	gtg gat aac tgc atc agt gla tgg cat ttt c	1528
r2B1 stacker	caa ggg ttg gta gcc tgt gfg agc c	1529
SRT		
FRET		
Set 1		
r2B1 invader	atg gfg tct ttg gfg act cfg tgt ggt aca	1530
r2B1 probe	aac-gag-gcg-cac-tcc-aat-agg-gac-aag	1531

FIGURE 47AG

r2B1 arrestor SRT FRET	ctt-gtc-cct-att-gga-gtg-cgc-c	1532
Set 1		
r2B1 probe	gcg gcg tac agc cgg tgt gag c	1533
r2B1 invader	cat ttg act gcg gtc atc aag ggt tgg tc	1534
Capture Sequence		
r2B1 probe	tgg cgt atg agc cgg tgt gag c	1535
r2B1 invader	cat ttg act gcg gtc atc aag ggt tgg tc	1536
Capture Sequence		
Set 1		
r2B2 invader	gga tga ctg cat cag tgt atg gca ttg tgc	1537
r2B2 probe	aac-gag-gcg-cac-gta-cga-tca-tca-agg	1538
r2B2 arrestor	cct-tga-tga-tcg-tac-tac-gtg-cgc-c-NH2	1539
SRT FRET		
Set 1		
r2B2 invader	atg gtg tct ttg gtg act ctg tgt ggt aac	1540
r2B2 probe	tgg cgt atg acc aat tgg ggc aa	1541
r2B2 stacker	gat ctg caa atc tct gaa tct cgt gga tg	1542
r2B2 invader stacker	tct tgg aga gca ggt acc ctc gga ac	1543
Set 2		
r2B2 probe	tgg cgt atg acc aat tgg ggc aag	1544
r2B2 invader	atg gtg tct ttg gtg act ctg tgt ggt aac	1545
r2B2 stacker	atc tgc aaa tct ctg aat ctc gtg gat ga	1546
r2B2 invader stacker	tct tgg aga gca ggt acc ctc gga ac	1547
Set 3		
r2B2 probe	aac-gag-gcg-cac-acc-aat-tgg-ggc-aag	1548
r2B2 probe	aac gac gcg cac acc aat tgg ggc aag	1549
r2B2 arrestor	ctt-ggc-cca-att-ggt-gtg-cgc-c-NH2	1550
r2B2 invader	atg gtg tct ttg gtg act ctg tgt ggt aac	1551
SRT FRET		

FIGURE 47AH

Set 4	aac-gag-gcg-cac-acc-aat-tgg-ggc-aag-Pi	1552
r2B2 probe	<b>ctt-gcc-cca-att-ggt-gtg-cgc-c-Pi</b>	1553
r2B2 arrestor	atg gtg tct ttg gtg act ctg tgt ggt aac	1554
r2B2 invader		
SRT		
FRET		
Set 5	<b>ctt gcc cca att ggt gtg cg-NH2</b>	1555
r2B2 arrestor	aac-gag-gcg-cac-acc-aat-tgg-ggc-aag-NH2	1556
r2B2 probe	atg gtg tct ttg gtg act ctg tgt ggt aac	1557
r2B2 invader	atc tgc aaa tct ctg aat ctc gtg gat ga	1558
r2B2 stacker		
SRT		
FRET		
Set 6	ggc-aac-gag-gca-cac-caa-ttg-ggg-caa-g	1559
r2B2 probe	<b>ctt-gcc-cca-att-ggt-gtg-cgc-c-NH2</b>	1560
r2B2 arrestor	atg gtg tct ttg gtg act ctg tgt ggt aac	1561
r2B2 invader		
SRT		
FRET		
Set 7	aac gag gcg cac acc aat tgg ggc aag atc-NH2	1562
r2B2 probe	<b>gat ctt gcc cca att ggt gtg cg-NH2</b>	1563
r2B2 arrestor	atg gtg tct ttg gtg act ctg tgt ggt aac	1564
r2B2 invader		
SRT		
FRET		
Set 8	aac gag gcg cac acc aat tcg ggc aag-NH2	1565
r2B2 probe	<b>ctt gcc cga att ggt gtg cg-NH2</b>	1566
r2B2 arrestor	atg gtg tct ttg gtg act ctg tgt ggt aac	1567
r2B2 invader	atc tgc aaa tct ctg aat ctc gtg gat ga	1568
r2B2 stacker		
SRT		
FRET		
Set 9	cag tca cgt ctc atg gtg gcc tgt g-NH2	1569
r2B2 probe		

FIGURE 47AI

r2B2 invader r2B2 arrestor SRT FRET	gta tgg cat ttt ggt acg atc atc aag ggc <b>cac agg cca cca tga gac g-NH2</b>	1570 1571
Set 10 r2B2 probe r2B2 invader r2B2 arrestor r2B2 stacker SRT FRET	cag tca cgt ctc aga gcc aat cac ctg-NH2 cga tca tca agg gat ggt ggc ctg tgc <b>cag ctg att ggc tct gag acg-NH2</b> atc aat ctc ctt ttg gac tt ctc tgc g	1572 1573 1574 1575
Set 11 r2B2 probe r2B2 invader r2B2 arrestor r2B2 stacker SRT FRET	cag tca cgt ctc aga gcc aat cac ct-NH2 cga tca tca agg gat ggt ggc ctg tgc <b>agg tga ttg gct ctg aga cg-NH2</b> gat caa tct cct ttt gga ctt tct ctg c	1576 1577 1578 1579
Set 12 r2B2 probe	FAM-cag tca cgt ctc aga gcc aat cac ct-NH2	1580
Set 13 / Set 14 r2B2 probe r2B2 arrestor r2B2 invader r2B2 stacker r2B2 invader SRT FRET	cag tca cgt ctc aga gcc aat cac c-NH2 <b>ggt gat tgg ctc tga gac g-NH2</b> cga tca tca agg gat ggt ggc ctg tgc gat caa tct cct ttt gga ctt tct ctg c tga tca atc tcc tt tgg act ttc tct gc	1581 1582 1583 1584 1585
Set 15 r2B2 probe r2B2 arrestor r2B2 stacker r2B2 invader SRT FRET	cag tca cgt ctc aga gcc aat cac-NH2 <b>gtg att ggc tct gag acg-NH2</b> ctg atc aat ctc ctt ttg gac tt ctc tgc g cga tca tca agg gat ggt ggc ctg tgc	1586 1587 1588 1589

**FIGURE 47AJ**

Set	Probe	Sequence	Position
Set 16	r2B2 probe	cag tca cgt ctc aga ggc aat cac ct-NH2	1590
	r2B2 arrestor	<b>agg tga ttg cct ctg aga cg-NH2</b>	1591
	r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1592
	r2B2 stacker	gat caa tct cct ttt gga ctt tct ctg c	1593
	SRT		
Set 17	r2B2 probe	cag tca cgt ctc aga ggc aat cac ctg-NH2	1594
	r2B2 arrestor	<b>cag gtg att gcc tct gag acg-NH2</b>	1595
	r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1596
	r2B2 stacker	atc aat ctc ctt ttg gac tt ctc tgc g	1597
	SRT		
Set 18	r2B2 probe	cgc tca cgc ctc aga gcc aat cac ct-NH2	1598
	r2B2 arrestor	<b>agg tga ttg gct ctg agg cg-NH2</b>	1599
	r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1600
	r2B2 stacker	gat caa tct cct ttt gga ctt tct ctg c	1601
	SRT		
Set 19	r2B2 probe	cgc tca cgc ctc aga gcc aat cac c-NH2	1602
	r2B2 arrestor	<b>ggf gat tgg ctc tga ggc g-NH2</b>	1603
	r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1604
	r2B2 stacker	tga tca atc tcc ttg tgg act ttc tct gc	1605
	SRT		
Set 20-21	r2B2 probe	cgc tca cgc ctc aga gcc aat cac-NH2	1606
	r2B2 arrestor	<b>gtg att ggc tct gag acg-NH2</b>	1607
	r2B2 invader	cga tca tca agg gat ggt ggc ctg tgc	1608
	r2B2 stacker	ctg atc aat ctc ctt ttg gac ttt ctc tgc g	1609
	SRT		



FIGURE 47AL

r3A1 invader	tcc cct gtt tct tga aaa gtc cat gtg tga	1637
r3A1 probe	aac gag gcg cac cgg gtc cca aat c-NH2	1638
r3A1 arrestor	<b>gat ttg gga ccc ggt gcg-NH2</b>	1639
r3A1 probe	aac gag gcg cac cgg gtc cca aat c-NH2	1640
r3A1 arrestor	<b>gga ttt ggg acc cgg tgc gc-NH2</b>	1641
r3A1 probe	aac gag gcg cac cgg gtc cca aat-NH2	1642
r3A1 arrestor	<b>att tgg gac ccg gtg cgc-NH2</b>	1643
r3A1 stacker	ccg tag agg agc acc agg acg	1644
r3A1 probe	aac gag gcg cac cgg gtc cca aa-NH2	1645
r3A1 arrestor	<b>ttt ggg acc cgg tgc gc-NH2</b>	1646
r3A1 stacker	tcc gta gag gag cac cag ga	1647
r3A1 probe	cag tca cgt ctg cgg gtc cca aa-NH2	1648
r3A1 arrestor	<b>ttt ggg acc cgg aga cg-NH2</b>	1649
r3A1 stacker	<b>tcc gta gag gag cac cag ga</b>	1650
r3A1 probe	ccg tca cgc ctg cgg gtc cca aa-NH2	1651
r3A1 arrestor	<b>ttt ggg acc cgg agg cg-NH2</b>	1652
r3A1 stacker	<b>tcc gta gag gag cac cag ga</b>	1653
r3A1 stacker	<b>tcc gta gag gag cac cag ga</b>	1654
r3A1 probe	aac gag gcg cac cgg gtc cca-NH2	1655
r3A1 arrestor	<b>tgg gac ccg gtg cgc-NH2</b>	1656
r3A1 probe	ccg tca cgc ctg cgg gtc cca-NH2	1657
r3A1 arrestor	<b>tgg gac ccg gag gcg-NH2</b>	1658
r3A1 stacker	aat ccg tag agg agc acc agg	1659
r3A1 probe	aac gag gcg cac cgg gtc cca	1660
<hr/>		
r3A2 invader	ttc ctt gtt tct taa aaa ttc cat gtc taa	1661
r3A2 invader	att ttt cga tac ttt tta tag cac tcc atc	1662
r3A2 probe	tgg cgt atc tgg gtt cca agt c	1663
r3A2 probe	aac gag gcg cac gtc aaa tct ccc taa	1664
r3A2 probe	aac-gag-gcg-cac-tgg-gtt-cca-agt-c	1665
r3A2 arrestor	<b>tta ggg aga ttt gac gtg cgc c - NH2</b>	1666
r3A2 arrestor	<b>gac-ttg-gaa-ccc-agt-gcg-cc-NH2</b>	1667
r3A2 probe	aac gag gcg cac tgg gtt cca agt c	1668
r3A2 probe	aac-gag-gcg-cac-tgg-gtt-cca-agt-c-Pi	1669
r3A2 arrestor	<b>gac ttg gaa ccc agt gcg-NH2</b>	1670
r3A2 probe	aac gag gcg cac tgg gtt cca agt cg-NH2	1671
r3A2 arrestor	<b>cga ctt gga acc cag tgc gc-NH2</b>	1672
r3A2 probe	aac gag gcg cac aac cat cca gtt cta ta-NH2	1673



FIGURE 47AM

r3A2 invader	gga atc gtc act act gac cct ttg ggt ata aac ac	1674
r3A2 stacker	tct ttt tta cag act ctc tca agt cta tta cc	1675
r3A2 arrestor	<b>tat aga act tga tgg ttg tgc gc-NH2</b>	1676
r3A2 probe	aac gag gcg cac aac cat caa gtt cta-NH2	1677
r3A2 stacker	tat ctt ttt tac aga ctc tct caa gtc tat tac c	1678
r3A2 arrestor	<b>tag aac ttg atg gtt gtc cgc-NH2</b>	1679
r3A2 probe	cag tca cgt ctc ctc ggc agg gc-NH2	1680
r3A2 invader	cac aat atc gta ggt agg agg tgc ctt aa	1681
r3A2 arrestor	<b>gcc ctg ccg agg aga cg-NH2</b>	1682
r3A2 probe	cag tca cgt ctc ctc ggc agg g-NH2	1683
r3A2 stacker	ccc cat cga tct cct cct g	1684
r3A2 arrestor	<b>ccc tgc cga gga gac g-NH2</b>	1685
r3A2 probe	cag tca cgt ctc ctc ggc agg-NH2	1686
r3A2 stacker	gcc cca tgc atc tcc tcc	1687
r3A2 arrestor	<b>cct gcc gag gag acg-NH2</b>	1688
r3A2 probe	cag tca cgt ctc ctc ggc ag-NH2	1689
r3A2 stacker	ggc ccc atc gat ctc ctc	1690
r3A2 arrestor	<b>ctg ccg agg aga cg-NH2</b>	1691
r3A2 probe	ccg tca cgc ctc ctc ggc agg-NH2	1692
r3A2 arrestor	<b>cct gcc gag gag gcg-NH2</b>	1693
r3A2 stacker	gcc cca tgc atc tcc tcc	1694
r3A2 probe	ccg tca cgc ctc ctc ggc agg	1695
hICAM-1 probe	ccg tca cgc ctc ggc ttg tgt gtt c-NH2	1696
hICAM-1 invader	ccg gga tag gtt cag gga ggc gtc	1697
hICAM-1 stacker	<b>ggt ttc atg ggg gtc cct</b>	1698
hICAM-1 arrestor	<b>gaa cac aca agc cga ggc g</b>	1699
hVCAM-1 probe	ccg tca cgc ctc gcc ttg gtt tgg-NH2	1700
hVCAM-1 arrestor	<b>cca aac aaa gcc gag gcg</b>	1701
hVCAM-1 invader	ggg caa cat tga cat aaa gtg ttt gcg tac tct c	1702
hVCAM-1 stacker	<b>ggt cga att cca tgt cat c</b>	1703
hVCAM-1 probe	ccg tca cgc ctc gcc ttg gtt tg-NH2	1704
hVCAM-1 arrestor	<b>caa aca aag gcg agg cg</b>	1705
hVCAM-1 stacker	<b>ggt tgc aat tcc atg tca tc</b>	1706
hGAPDH probe	aac gag gcg cac gct cct gga aga tg-NH2	1707
hGAPDH arrestor	<b>cat ctt cca gga gcg tgc gcc-NH2</b>	1708

FIGURE 47AN

hGAPDH invader	cac ttg att ttg gag gga tct ca	1709
Secondary system oligos		
Capture Oligo	aaa agt ggc tcc t-(biotin)c	1710
Capture Oligo	aaa aga ggc tcc gct-(biotin)c	1711
Capture Oligo	aaa atg tac gcc gct-(biotin) c	1712
Capture Oligo	aaa aga tac gcc aca gct-(biotin) c	1713
Capture Oligo	aaa acc aac cgt atg aac t-(biotin) c	1714
Capture Oligo	aaa atc ata cgc cac t-(biotin)c	1715
SRT	cgg-agg-aag-cag-ttg-gtg-tgc-ctc-cgc-gtt-gcc-tt-NH2	1716
SRT	cgg agg aag cag ttg gtg ccc ctc gtt aa-NH2	1717
SRT	cgg aag aag cag ttg gtg cgc ctc gtt aa-NH2	1718
SRT	cgg aag aag cag ttg gtg cgc ctc gtt aa-NH2	1719
SRT	cgg aag aag cag ttg gtg cgc ctc gtt aa	1720
SRT	cgg aag aag cag ttg gtg cgc ctc gtt aa	1721
SRT	cgg aag aag cag ttg gtg cgc ctc gtt aa	1722
SRT	cgg aag aag cag ttg gag gcg tga cgg t-NH2	1723
SRT	cgg aag aag cag ttg gag gcg tga cgg a-NH2	1724
SRT	cgg aag aag cag ttg gag gcg tga cgg a	1725
SRT	cgg aag aag cag ttg gag gcg tga cgg t	1726
SRT	cgg aag aag cag ttg gag gcg tga cgg t	1727
SRT	cgg aag aag cag ttg gag gcg tga cgg t	1728
SRT	cgg aag aag cag ttg gag gcg tga cgg a	1729
FRET probe	FL-caa c(cy3)gc ttc ctc	1730
FRET probe	FL-caa c(cy3)gc ttc ctc c	1731
FRET probe	FL-caa-c(cy3)g-ctt-cct-ccg	1732
FRET probe	FL-caa-c(cy3)g-ctt-cct-ccg-uuu	1733
FRET probe	FL-caa-c(cy3)g-ctt-cct-ccg-uuu-u	1734
FRET probe	FL-caa-c(cy3)g-ctt-cct-ccg-NH2	1735

Oligo sequence descriptions:  
 C18ddC = C18 linker+dideoxy C, ddC = dideoxy C, F1 = Fluorescein  
 C18ddC = C18 linker+dideoxy C, ddC = dideoxy C, F1 = Fluorescein

Oligo Type	Oligo Sequence	SEQ ID NO
<b>HUMAN IL-2</b>		
Human IL-2 Probe	FI- CGAAATTAATACGCCCTTCITGGGCAIGTAC -C18ddC	1736
Human IL-2 Probe	CGAAATTAATACGCCCTTCITGGGCAIGTAC -C18ddC	1737
Human IL-2 Invader	CTGAAGATGTTTCAGTCTGTG- ddC	1738
Human IL-2 Invader	GAAGATGTTTCAGTCTGTGGC	1739
Human IL-2 Probe	TCACCTCCTACCTTCITGGGCAIGTAA	1740
Human IL-2 Probe	TCACCTCCTACCTTCITGGGCAIGTAAAAAC	1741
Human IL-2 Probe	TCACCTCCTACCTTCITGGGCAIGTAA- C18ddC	1742
Human IL-2 Invader	GAAGATGTTTCAGTCTGTGG- ddC	1743
Human IL-2 Probe	FI- ACTTCCTACTTAATTCACATTCAAAAATC	1744
Human IL-2 Probe	ACTTCCTACTTAATTCACATTCAAAAATC - C18ddC	1745
Human IL-2 Invader	GAGTTGGGATCTTGTAATTAT-ddC	1746
Human IL-2 Probe	FI- CGTGTCTCTGGCGTATCTTAATTCACATTCAAAAATC	1747
Human IL-2 Probe	CGTGTCTCTGGCGTATCTTAATTCACATTCAAAAATC	1748
Human IL-2 Invader	GAGTTGGGATCTTGTAATTAT - ddC	1749
Human IL-2 Probe	FI- CGTGTCTCTGGCGTATCTTAATTCACATTCAAAAATCATCTG	1750
Human IL-2 Probe	CGTGTCTCTGGCGTATCTTAATTCACATTCAAAAATCATCTG	1751
Human IL-2 Probe	FI- CGTGTCTCTGGCGTATCTTAATTCACATTCAAAAATCATC	1752
Human IL-2 Probe	CGTGTCTCTGGCGTATCTTAATTCACATTCAAAAATCATC	1753
Human IL-2 Invader	GAGTTGGGATCTTGTAATTAT-ddC	1754
<b>HUMAN <math>\beta</math>-ACTIN</b>		
Human $\beta$ -actin Probe	FI-TTCCTACTCTTGATCTTCATGTGCG	1755
Human $\beta$ -actin Invader	CTCAGGAGGAGCAATGATCTT	1756
Human $\beta$ -actin Invader	CTCAGGAGGAGCAATGAT	1757
Human $\beta$ -actin Probe	FI-TCATCTCTACTCTGGGTCACTCTCTCG -C18ddC	1758
Human $\beta$ -actin Probe	TCATCTCTACTCTGGGTCACTCTCTCG -C18ddC	1759
Human $\beta$ -actin Invader	GTGTTGAAGGCTCTCAAAACATGAT- ddC	1760
Human $\beta$ -actin Invader	GGGTGTTGAAGGCTCTCAAAACATGAT - ddC	1761
Human $\beta$ -actin Probe	FI- CGTGTCTCTGGCGTATCTGGGTCACTCTCTCG	1762
Human $\beta$ -actin Probe	CGTGTCTCTGGCGTATCTGGGTCACTCTCTCG	1763
Human $\beta$ -actin Invader	GGGTGTTGAAGGCTCTCAAAACATGAT - ddC	1764
<b>HUMAN GAPDH</b>		
Human GAPDH Probe	FI- TTCATACGGTTGGTAGTTGAGGGTCAATG	1765
Human GAPDH Probe	TTCATACGGTTGGTAGTTGAGGGTCAATG	1766
Human GAPDH Invader	GGAATCATATTGGAAACATGTAACCATC	1767
Human GAPDH Probe	FI- TTCATACGGTTGGCTCTCTGGGAAGATG	1768

FIGURE 47AP

Human GAPDH Probe	TTCATACGGTTGGCICCTGGGAAGAIG	1769
Human GAPDH Invader	CACTTGATTTTGGAGGGGATCTCA	1770
Human/Mouse/Rat GAPDH Probe	TTCATACGGTTGGTAGTTGAGGTCAAIG	1771
Mouse/Rat GAPDH Invader	AGAATCATACTGGAACATGTAGACCATC	1772
Mouse GAPDH Probe	FI-TGGCGTATCAITAGTIGTGA	1773
Mouse GAPDH Probe	TGGCGTATCAITAGTIGTGA	1774
Mouse GAPDH Invader	GGAGTCATACTGGAACATGTAGACC	1775
Mouse GAPDH Probe	TGGCGTATCAITAGTIGTGA	1776
Mouse GAPDH Invader	AGTCATACTGGAACATGTAGACA	1777
Mouse GAPDH Invader	GGAGTCATACTGGAACATGTAGACA	1778
<b>MOUSE IL-6</b>		
Mouse IL-6 Probe	FI- TGGCGTATCICITIIICICAI	1779
Mouse IL-6 Probe	TGGCGTATCICITIIICICAI	1780
Mouse IL-6 Invader	ACAATCAGAAATTGCCATTGCACAACA	1781
<b>MOUSE ONCOSTATIN M</b>		
Mouse Oncostatin M Probe	FI-GAAGGCAGAGGACCGTGAGGC	1782
Mouse Oncostatin M Probe	GAAGGCAGAGGACCGTGAGGC	1783
Mouse Oncostatin M Invader	AAGACATCTGGTGTGTAGTGA	1784
Mouse Oncostatin M Probe	FI-TGGCGTATCICCCACAGAGAAAGC	1785
Mouse Oncostatin M Probe	TGGCGTATCICCCACAGAGAAAGC	1786
Mouse Oncostatin M Invader	CACTGAGCCGATGAAGCGATGGTAA	1787
Mouse Oncostatin M Probe	FI- TGGCGTATCITAGGGCICCAAGAG	1788
Mouse Oncostatin M Probe	TGGCGTATCITAGGGCICCAAGAG	1789
Mouse Oncostatin M Invader	GTGTTCAGGTTTTGGAGGCGGATAA	1790
Mouse Oncostatin M Probe	FI-TGGCGTATCTAGGGCICCAAG	1791
Mouse Oncostatin M Probe	TGGCGTATCTAGGGCICCAAG	1792
Mouse Oncostatin M Invader	GTGTTCAGGTTTTGGAGGCGGATAA	1793
FRET Probe	FI-ATTC(CY3)TCTCAGA-3'NH2	1794
FRET Probe	FI-ATTC(CY3)TCTCAGAC-3'NH2	1795
FRET Probe	FI-ATTC(CY3)TCTCAGACT-3'NH2	1796
SRT	CAGTCTGAGATGAATGATACGCCAGG-3'NH2	1797
Mouse Oncostatin M Arrestor	<b>CITGGAGCCCTAGATA-NH2</b>	1798
Mouse Oncostatin M Arrestor	<b>CITGGAGCCCTAGAT-NH2</b>	1799
Mouse Oncostatin M Arrestor	<b>CITGGAGCCCTAGA-NH2</b>	1800
Mouse Oncostatin M Probe	CTGGCGTATCTAGGGCICCA	1801
Mouse Oncostatin M Probe	CCTGGCGTATCTAGGGCICCA	1802
Mouse Oncostatin M Probe	GTGTTCAGGTTTTGGAGGCGGATAA	1803
Mouse Oncostatin M Invader	CAGTCTGAGATGAATGATACGCCAGG-3'NH2	1804
SRT	<b>CITGGAGCCCTAGAT-NH2</b>	1805
Arrestor		
Mouse Oncostatin M Probe	FI-CTCTCTCGTCTCTAGGGCICCA	1806

FIGURE 47AQ

Mouse Oncostatin M Probe	CTCTCTCGTCTCTAGGGCTCCA	1807
Mouse Oncostatin M Invader	GTGTTTCAGGTTTTGGAGCGGATAA	1808
SRT	CAGTCTGAGATGAATGAGACGAGAGAGI-NH2	1809
Mouse Oncostatin M Arrestor	CTTGAGCCCTAGAG-NH2	1810
Mouse Oncostatin M Probe	FI- TGGCGTATCTAGGGCTCCA	1811
Mouse Oncostatin M Probe	TGGCGTATCTAGGGCTCCA	1812
Mouse Oncostatin M Invader	GTGTTTCAGGTTTTGGAGCGGATAA	1813
Mouse Oncostatin M Probe	TGGCGTATCTCCCCAGAGAAA	1814
Mouse Oncostatin M Probe	TGGCGTATCTCCCCAGAGA	1815
Mouse Oncostatin M Invader	CACTGAGCCGATGAAGCGATGGTAA	1816
Mouse Oncostatin M Probe	TGGCGTATCTATAGGGCTC	1817
Mouse Oncostatin M Invader	GTGTTTCAGGTTTTGGAGCGGAA	1818
Mouse Oncostatin M Probe	CTCTCTCGTCTCTCAGGTTTIG	1819
Mouse Oncostatin M Invader	GGCAGCTCTCAGGTCAGGTGTGA	1820
Mouse Oncostatin M Invader	AGGCAGCTCTCAGGTCAGGTGTGA	1821
SRT	CAGTCTGAGATGAATGAGACGAGAGAGI-NH2	1822
FRET Probe	FI-ATTCT(CY3)TCTCAGAC-3'NH2	1823
Mouse Oncostatin M Arrestor	CAAAACCTGAAAGAGA-3'NH2	1824
Mouse Oncostatin M Arrestor	CAAAACCTGAAAGAGA-3'NH2	1825
Mouse Oncostatin M Arrestor	CAAAACCTGAAAGAGACG-3'NH2	1826
Mouse Oncostatin M Probe	FI- CTCTCTCGTCTCTCAGGTTTIG	1827
Mouse Oncostatin M Probe	CTCTCTCGTCTCTCAGGTTTIG-NH2	1828
Mouse Oncostatin M Invader	GGCAGCTCTCAGGTCAGGTGTGA	1829
Mouse Oncostatin M Stacker	GAGGCGGATATAGGGCT- Biotin TEG	1830
<b>HUMAN ONCOSTATIN M</b>		
Human Oncostatin M Probe	CTCTCTCGTCTCTAAGGACTTA	1831
Human Oncostatin M Probe	CTCTCTCGTCTCTAAGGACTTA	1832
Human Oncostatin M Invader	GAACAGGAGTGCAAGGACCAGACA	1833
Human Oncostatin M Probe	TCAGTCTCTCAGGTTTIG	1834
Human Oncostatin M Probe	GTCACGTCTCTCAGGTTTIG	1835
Human Oncostatin M Probe	AGTCACGTCTCTCAGGTTTIG	1836
Human Oncostatin M Probe	CAGTCAGTCTCTCAGGTTTIG	1837
Human Oncostatin M Probe	AGGCAGTCTCAGGTCAGGTGTGA	1838
FRET Probe 1	FI- CAAC(CY3)GCTTCCTCCG	1839
SRT	CGGAGGAAGCAGTTGGAGACGTGACTGIGG-NH2	1840
SRT with mismatch	CGGAAGAACGAGTTGGAGACGTGACTGIGG-NH2	1841
SRT with mismatch	CGGACGAAGCAGTTGGAGACGTGACTGIGG-NH2	1842

FIGURE 47AR

bold indicates 2' o-methyl bases

Oligo Type	Oligo Sequence	Oligo #	SEQ ID NO
SECONDARY SYSTEM:			
SET 1			
FRET probe 1	5'-F-CAAC(CY3)GCTTCCTCCG-3'	DB04001F6	1843
secondary target	5'-CGGAAGAAAGCAGTTGGTGCGCCTCG <b>IIIAA</b> -NH2	649-10-01	1844
SET 2			
FRET probe 1	5'-F-CAAC(CY3)GCTTCCTCCG-3'	DB04001F6	1845
secondary target	5'-CGGAAGAAAGCAGTTGGAGGCGTGACGGT-NH2-3'	641-60-03	1846
h2C19 designs 2			
probe	5'-AACGAGGCGCAGATGCCATCGA-NH2-3'	971-26-09	1847
stacker	5'-TTCTTGGTGTTCTTTACTTTCTC-3'	971-26-12	1848
invader	5'-GCAATCAATAAGTCCCGAGGGTTGTC	971-26-11	1849
arrestor	5'-TCGATGGACATCGTGCGC-3'	971-26-10	1850
SET 1			
h 2D6 p450 designs			
probe	5'-CCGTCACGCGCTCTCACCCATCT-NH2-3'	971-11-01	1851
stacker	5'-CTGGTCGCCGCACCT-3'	971-11-04	1852
invader	5'-TGTAGGGCATGTGAGCCTGGA-3'	971-11-03	1853
arrestor	5'-AGATGGGAGAGAGGCG-3'	971-11-02	1854
SET 2			
probe	5'-CCGTCACGCGCTCGAAGCCCTGT-NH2-3'	971-11-05	1855
stacker	5'-ACTTCGATGTCACGGGATGTCATATGG-3'	971-11-08	1856
invader	5'-GAGTGTCGTTCCCTTAGGGATGCCGC-3'	971-11-08	1857
arrestor	5'-ACAGGGCTTCGAGGCG-3'	971-11-06	1858
SET 2			
probe	5'-CCGTCACGCGCTCCCTGCTGAGAAAAG-NH2-3'	971-11-09	1859
stacker	5'-GCAGGAAGGCGCTCCG-3'	971-11-12	1860
invader	5'-CCCCAGGCATGCACGGCGGA-3'	971-11-11	1861
arrestor	5'-CTTCTCAGCAGGGAGGCG-3'	971-11-10	1862
SET 2			

FIGURE 47AS

h 2D6 shroter designs	probe	5'-CCGTCACGCCTCCCTGCTGAGAAA-HEX-3'	1051-12-06	1863
	probe	5'-CCGTCACGCCTCCCTGCTGAGAAA-3'	1051-12-05	1864
	probe	5'-CCGTCACGCCTCCCTGCTGAGAAA-NH2-3'	971-38-01	1865
	invader	5'-CCCGAGGATGCACGGCGGA-3'	971-11-11	1866
	stacker	5'-GGCAGGAAGGCCTCC-3'	971-38-03	1867
	arrestor SET 2	5'-TTTCTCAGCAGGAGGCGG-3'	971-38-02	1868
	probe	5'-CCGTCACGCCTCCCTGCTGAGA-NH2-3'	971-38-07	1869
	invader		971-11-11	
	stacker	5'-AAGGCAGGAAGGCCTCC-3'	971-38-09	1870
	arrestor SET 2	5'-TCTCAGCAGGAGGCG-3'	971-38-08	1871
	probe	5'-CCGTCACGCCTCCCTGCTGAGAA-NH2-3'	971-38-04	1872
	invader		971-11-11	
	stacker	5'-AGGCAGGAAGGCCTGG-3'	971-38-06	1873
	arrestor SET 2	5'-TTCTCAGCAGGAGGCG-3'	971-38-05	1874
	probe	5'-CCGTCACGCCTCCCTGCTGAGAAA-NH2-3'	971-11-09	1875
	invader		971-11-11	
	stacker	5'-GCAGGAAGGCCTCCG-3'	971-11-12	1876
	arrestor SET 2	5'-CTTTCTCAGCAGGAGGCGG-3'	971-11-10	1877
h 2B6 p450 alt. Splice designs	probe	5'-AACGAGGCGCACCATATCCC-NH2-3'	1051-48-01	1878
	invader	5'-CCAGCGTTTCATTGGCAAAGATCAA-3'	971-01-03	1879
	stacker	5'-CGGAAGAATGGGTCGACCATG-3'	971-01-04	1880
	arrestor SET 1	5'-GGGATATGGTGGTGCGC-3'	1051-48-02	1881
	probe	5'-CCGTCACGCCTCCACCATATCCC-HEX-3'	1051-12-02	1882
	probe	5'-CCGTCACGCCTCCACCATATCCC-3'	1051-12-01	1883
	probe	5'-CCGTCACGCCTCCACCATATCCC-NH2-3'	971-01-01	1884
	invader		971-01-03	
	stacker arrestor	5'-GGGATATGGTGGAGGCGG-3'	971-01-04 971-01-02	1885

FIGURE 47AT

FIGURE 47A

SET 2				
probe	5'-AACGAGGGCGCACCGAGCTGATGAG-NH2-3'	1051-48-03	1886	
invader	5'-GAGAAAGAGCTCAAACAGCTGGCGGAATAA-3'	971-01-10	1887	
stacker	5'-TGAAAAAGTCTGGTAGAACAAAGTTCAGC-3'	971-01-11	1888	
arrestor	5'-CTCATCAGCTCTGGTGCGC-3'	1051-48-04	1889	
SET 1				
probe	5'-CCGTCACGCCTCCAGAGCTGATGAG-NH2-3'	971-01-08	1890	
		971-01-10		
		971-01-11		
	5'-CTCATCAGCTCTGGAGGCG-3'	971-01-09	1891	
SET 2				
h 2B6 p450 alt.splice designs2				
p	5'-AACGAGGGCGCACCCCTTGGATTTC-NH2-3'	1051-48-05	1892	
l	5'-CTGTTCAATCTCCCTGTAGACTCTCTA-3'	1051-48-10	1893	
s	5'-CGAAGCTCCTCTATCAG-3'	1051-48-09	1894	
a	5'-GAAATCCAAGGGTGCGC-3'	1051-48-06	1895	
SET 1				
p	5'-CCGTCACGCCTCCCTTGGATTTC-NH2-3'	1051-48-07	1896	
l		1051-48-10		
s		1051-48-09		
a	5'-GAAATCCAAGGGAGGCG-3'	1051-48-08	1897	
SET 2				
p	5'-AACGAGGGCGCACTGAGGGCC-NH2-3'	1051-48-11	1898	
l	5'-GGAAGAGGAAGGTGGGTCCAA-3'	1051-48-16	1899	
s	5'-CCCTTGGATTTCGAAG-3'	1051-48-15	1900	
a	5'-GGCCCTCAGTGCGC-3'	1051-48-12	1901	
SET 1				
p	5'-CCGTCACGCCTCTGAGGGCC-NH2-3'	1051-48-13	1902	
l		1051-48-16		
s		1051-48-15		
a	5'-GGCCCTCAGAGGCG-3'	1051-48-14	1903	
SET 2				
h2B6 p450 alt. Splice designs4				



FIGURE 47AU

probe	5'-AACGAGGGCGCACAATACAGAGCTG-NH2-3'	1051-48-17	1904
invader	5'-GAGAAAGAGCTCAAACAGCTGGCCGC-3'	1051-48-22	1905
stacker	5'-ATGAGTGA AAAAGTCTGGTAGAAC-3'	1051-48-21	1906
arrestor	5'-CAGCTCTGATTGTGCGC-3'	1051-48-18	1907
SET 1			
probe	5'-CCGTCACGCCCTCAATACAGAGCTG-NH2-3'	1051-48-19	1908
invader		1051-48-22	
stacker		1051-48-21	
arrestor	5'-CAGCTCTGATTGAGGCG-3'	1051-48-20	1909
SET 2			
probe	5'-AACGAGGGCGCACGGTTGAGGTTCTG-NH2-3'	1051-48-23	1910
invader	5'-CAGCAAAGAGAGCGAGAGCGTTGAC-3'	1051-48-28	1911
stacker	5'-GTGGCTGAATTCACGTGTG-3'	1051-48-27	1912
arrestor	5'-CAGAACCTCAACCGTGCGC-3'	1051-48-24	1913
SET 1			
probe	5'-CCGTCACGCCCTCGGTTGAGGTTCTG-NH2-3'	1051-48-25	1914
invader		1051-48-28	
stacker		1051-48-27	
arrestor	5'-CAGAACCTCAACCGAGGCG-3'	1051-48-26	1915
SET 2			
h2B6 p450 designs			
probe	5'-CCGTCACGCCCTCCACCATATCCCCG-NH2-3'	971-01-06	1916
invader	5'-CCGTCACGCCCTCCACCATATCCC-NH2-3'	971-01-03	1917
stacker	5'-CGGAAGAAATGGGTCGAC-3'	971-01-05	1918
stacker	5'-CGGAAGAAATGGGTCGACCATG-3'	971-01-04	1919
arrestor	5'-GGGATATGGTGGAGGCG-3'	971-01-02	1920
SET 2			
probe	5'-CCAGCGGTTTCCATTGGCAAAGATCAA-3'	971-01-01	1921
invader		971-01-03	
arrestor	5'-CGGGGATATGGTGGAGGCG-3'	971-01-07	1922
SET 2			
probe	5'-CCGTCACGCCCTCCAGAGCTGATGAG-NH2-3'	971-01-08	1923
invader	5'-GAGAAAGAGCTCAAACAGCTGGCCGAATAA-3'	971-01-10	1924
stacker	5'-TGAAAAAGTCTGGTAGAACAAAGTTCAGC-3'	971-01-11	1925

FIGURE 47AV

arrestor SET 2	5'-CTCATCAGCTCTGGAGGCG-3'	971-01-09	1926
h2b6p450 designs 2			
probe	5'-CCGTCACGCCTCAGATGACTGCC-NH2-3'	971-01-12	1927
invader	5'-GGAGAAAGGTCGGAATACTCTGAATCTCATC-3'	971-01-13	1928
stacker	5'-TCTGTGATGGCATTGGCTCGG-3'	971-01-14	1929
arrestor SET 2	5'-GGCAGTCATCTGAGGCG-3'	971-01-15	1930
h 2C19 designs 1			
probe	5'-CCGTCACGCCTCCATCCTTAATATCTAT-NH2-3'	971-26-01	1931
invader	5'-GAGAGATTGGTTAAGGATTTGCTGAA-3'	971-26-03	1932
stacker	5'-CTGTAGGATATTTCCAATCACTGGG-3'	971-26-04	1933
arrestor SET 2	5'-ATAGATATTAAGGATGGAGGCG-3'	971-26-02	1934
probe	5'-AACGAGGCGCACCGTTCCAGGC-NH2-3'	971-26-05	1935
invader	5'-CATATCCATGCAGCACCAACCATGA-3'	971-26-07	1936
stacker	5'-CAAAATACAGAGTGAACACAGGGCC-3'	971-26-08	1937
arrestor SET 1	5'-GCCTGGAACGGTGCGC-3'	971-26-06	1938
h2C19 shorter site 2 designs			
probe	5'-AACGAGGCGCACCGTTCCAGG-NH2-3'	971-68-01	1939
invader	5'-CATATCCATGCAGCACCAACCATGA-3'	971-26-07	1940
stacker	5'-CCAAAATACAGAGTGAACACAGGGCC-3'	971-68-03	1941
arrestor SET 1	5'-CCTGGAACGGTGCGC-3'	971-68-02	1942
probe	5'-AACGAGGCGCACCGTTCCAGGC-NH2-3'	971-26-05	1943
probe	5'-AACGAGGCGCACCGTTCCAGGC-3'	1051-12-03	1944
probe	5'-AACGAGGCGCACCGTTCCAGGC-HEX-3'	1051-12-04	1945
invader	5'-CAAAATACAGAGTGAACACAGGGCC-3'	971-26-07	1946
stacker	5'-GCCTGGAACGGTGCGC-3'	971-68-04	1947
arrestor SET 1		971-26-05	
rat 1A1, rat 1A2	Rat 1A1 site 1 bs. 639-700		
probe	5'-CCGTCACGCCTCAGATTGACTATGCTG-NH2-3'	500-58-01	1948

FIGURE 47AW

invader stacker arrestor SET 2	5'-CAGTAACTCCCAAACTCATTGCTTC-3' 5'-AGCAGCTCTTGGTCATCGT-3' 5'-CAGCATAGTCAATCTGAGGCG-3'	500-58-03 500-58-04 500-58-02	1949 1950 1951
rat 1A2 probe invader stacker arrestor SET 1	Rat 1A2 site 1 bs. 674-725 5'-AACGAGGCGCACTGACATTCTCCAC-NH2-3' 5'-GTCCACAGCATTCCCTGAGGA-3' 5'-AAAGTCCTTGGTCTCTTC-3' 5'-GTGGAGAAATGTCAGTGCGC-3'	500-58-05 500-58-07 500-58-08 500-53-06	1952 1953 1954 1955
rat 2B1-2B2 patent probe invader stacker arrestor SET 1	5'-AACGAGGCGCACTGGCTTGACACA-NH2-3' 5'-GTCAATGTCTCTGGGAGCCAAA-3' 5'-GAGAACTCTGGAGGATGGTGG-3' 5'-TGTGTCAAGCCAGTGCGC-3'	500-49-05 500-49-03 r2B1, 2B2 500-49-07 500-49-06	1956 1957 1958 1959
probe invader stacker arrestor SET 1	5'-AACGAGGCGCACTGGCTTGACACAG-NH2-3' 5'-AGAACTCTGGAGGATGGTGG-3' 5'-CTGTGTCAAGCCAGTGCGC-3'	500-49-01 500-49-03 r2B1, 2B2 500-49-04 500-49-02	1960 1961 1962
rat 2B1-2B2 site 4 probe invader stacker arrestor SET 2	PROBE SET 2 (r2B1 bs 1299-1353, r2B2 bs. 474-528) 5'-AACGAGGCGCACGAGGAACAATTCATTT-NH2-3' 5'-GTTCTGGAGGATGGTGTGAAGAAC-3' 5'-CGGGCAATGCCCTTCG-3' 5'-AAATGAATTGTTCTCGTGCGC-3'	500-49-12 500-49-10 500-49-14 500-49-13	1963 1964 1965 1966
probe invader stacker arrestor SET 1	5'-AACGAGGCGCACGAGGAACAATTCATTC-NH2-3' 5'-GGGCAATGCCCTTCG-3' 5'-GAAATGAATTGTTCTCGTGCGC-3'	500-49-08 500-49-10 500-49-11 500-49-09	1967 1968 1969
rat 2B1-2B2 ,5 patent probe	5'-AACGAGGCGCACAGCTGAGAAGCAG-NH2-3'	500-49-15	1970

FIGURE 47AX

invader	5'-GCCTCAGCCGGATCACCGC-3'	r2B1, 500-49-17	1971
invader	5'-GCCTCAGCCCGATCACCGC-3'	r2B2, 500-49-18	1972
stacker	5'-ATCTGGTACGTTGGAGGTATT-3'	r2B1 500-49-20	1973
stacker	5'-ATCTGGTATGTTGGAGGTATT-3'	r2B2 500-49-21	1974
arrestor	5'-CTGCTTCTCAGCTCTGCCG-3'	500-49-16	1975
NOTE: all 3 invader/probe sets are designed to detect both 2B1 and 2B2			
SET 1			
rat 2E1 p450 (af061442) 500-73	Rat 2E1 PROBE SET (570C)		
p	5'-CCGTCACGCCTCGTCGAAACGTTTGTT-NH2	500-40-04	1976
i	5'-CCTCAGACACTTCTTGTCATTGTAC-3'	500-40-02	1977
s	5'-GAAGAGGATATCCGCAATGACATTGC-3'	500-40-05	1978
a	5'-AACAAACGTTTCGACGAGGCG-3'	500-40-06	1979
SET 2			
p	5'-CCGTCACGCCTCGTCGAAACGTTTGTTGAAG-NH2-3'	500-40-01	1980
i		500-40-02	
s		500-40-05	
a	5'-CTTCAACAACGTTTCGACGAGGCG-3'	500-40-03	1981
SET 2			
rat 2E1 p450 (af061442) 500-73	Rat 2E1 PROBE SET (822G) (designed over splice junction #5)		
p	5'-CCGTCACGCCTCCTCCATCTCTATG-NH2-3'	500-40-10	1982
i	5'-GTTCTTGGCTGTGTTTTCCTTA-3'	500-40-08	1983
s	5'-AGGAGACAGTCAGTCACATC-3'	500-40-11	1984
a	5'-CATAGAGATGGAGGAGGCG-3'	500-40-12	1985
SET 2			
p	5'-CCGTCACGCCTCCTCCATCTCTATGAG-NH2-3'	500-40-07	1986
i		500-40-08	
s		500-40-11	
a	5'-CTCATAGAGATGGAGGAGGCG-3'	500-40-09	1987
SET 2			
rat 2E1 PROBE SET (969G)	Designed over splice junction #6		
probe	5'-CCGTCACGCCTCCTCTTCAATTTCTG-HEX-3'	1073-19-06	1988
invader	5'-CCCTGTCAATTTCTTCATGAAGTTTA-3'	500-40-14	1989
stacker	5'-GGTATTTTCATGAGGATCAGGAGC-3'	500-40-17	1990
arrestor	5'-CCAGAAATTGAAGAGGAGGCG-3'	500-40-15	1991
SET 2			

FIGURE 47AY

probe	5'-CCGTCACGCCCTCCTCTTCAATTTCTG-3'	1073-19-05	1992
probe	5'-CCGTCACGCCCTCCTCTTCAATTTCTG-NH2-3'	500-40-16	1993
probe	5'-CCGTCACGCCCTCCTCTTCAATTTCTGG-NH2	500-40-13	1994
invader		500-40-14	
stacker		500-40-17	
arrestor		500-40-18	1995
SET 2			
Rat 2E1 PROBE SET (969G)	Designed over splice junction #6		
probe	5'-CCGTCACGCCCTCCTCTTCAATTTCT-NH2-3'	500-73-01	1996
invader	5'-CCCTGTCAATTTCTTCATGAAGTTTA-3'	500-40-14	1997
stacker	5'-GGGTATTTTCATGAGGATCAGGAG-3'	500-73-03	1998
arrestor	5'-AGAAATTGAAGAGGAGGCG-3'	500-73-02	1999
SET 2			
rat 3A's design 2			
probe	5'-CCGTCACGCCCTCGTTCTGGGT-NH2-3'	500-43-15	2000
invader	5'-GAGCAAACTCATGCCAATGCAC-3'	r3A1, 3A18 500-43-23	2001
invader	5'-GAGCAAACTCATGTCAATGCAC-3'	r3A2 500-43-24	2002
invader	5'-GAGCAAACTCATGCCAATACAC-3'	r3A2 500-43-24	2003
stacker	5'-CCATTTCCAAAGGGCAG-3'	short r3A1, 3A2, 3A18 500-43-19	2004
stacker	5'-CCATTTCCCAAGGGCAG-3'	short r3A9 500-43-20	2005
arrestor	5'-ACCCAGGAACGAGGCG-3'	500-43-16	2006
SET 2			
probe	5'-CCGTCACGCCCTCGTTCTGGGT-NH2-3'	500-43-13	2007
invader		r3A1, 3A18 500-43-23	
invader		r3A2 500-43-24	
arrestor		500-43-14	2008
SET 2			
rat 3A's desing 3			
probe	5'-CCGTCACGCCCTCTGAGCAAACT-NH2-3'	500-43-29	2009
invader	5'-AGAGCGAGTTTCATATTCAA-3'	r3A1, 3A2 500-43-35	2010
invader	5'-AGAGCAACTTTCATGTTCAA-3'	r3A9 500-43-36	2011
invader	5'-ACAGCAAGTTTCATGCTGAA-3'	r3A18 500-43-37	2012
stacker	5'-CATGCCAATGCAGTTCCTG-3'	r3A1, 3A18 500-43-31	2013
stacker	5'-CATGTCAATGCAGTTCCTG-3'	r3A2 500-43-32	2014
stacker	5'-CATGCCAATACAGTTCCTG-3'	r3A9 500-43-33	2015

FIGURE 47AZ

arrestor SET 2	5'-AGGTTTGCTCTCCGAGGCG-3'	500-43-30	2016
probe	5'-CCGTCACGCCTCTGAGAGCAACCTCA-NH2-3'	500-43-27	2017
invader		r3A1, 3A2 500-43-35	
invader		r3A9 500-43-36	
invader		r3A18 500-43-37	
arrestor SET 2	5'-TGAGGTTTGCTCTCAGAGGCG-3'	500-43-28	2018
rat 3A's designs			
probe	5'-CCGTCACGCCTCGGAACATCTCCT-NH2-3'	500-43-03	2019
invader	5'-TGCTCCATACTGTTCAATGATGGC-3'	r3A1, 3A2 500-43-09	2020
invader	5'-TATCTGTATACTGGTTAATGATGGC-3'	r3A9 500-43-10	2021
invader	5'-TATCTCCATACTGTCTCATGAGGGC-3'	r3A18 500-43-11	2022
s	5'-TGAGTCTTCCACTGGTG-3'	r3A1, 3A2 500-43-05	2023
s	5'-TGAGCTTCCCACCTGGTG-3'	r3A9 500-43-06	2024
a	5'-TGAGTTTGCCACTGGTG-3'	r3A18 500-43-07	2025
SET 2			
probe	5'-CCGTCACGCCTCGGAACATCTCCTTGA-NH2-3'	500-43-01	2026
invader		r3A1, 3A2 500-43-09	
invader		r3A9 500-43-10	
invader		r3A18 500-43-11	
arrestor SET 2	5'-TCAAGGAGATGTTCCGAGGCG-3'	500-43-02	2027
rat 3A's design 2b			
probe	5'-CCGTCACGCCTCGTTCTGGG-NH2-3'	991-39-01	2028
invader	5'-GAGCAAAACCTCATGCCAATGCAC-3'	r3A1, 3A18 500-43-23	2029
invader	5'-GAGCAAAACCTCATGCAATGCAC-3'	r3A2 500-43-24	2030
invader	5'-GAGCAAAACCTCATGCCAATACAC-3'	r3A9 500-43-25	2031
stacker	5'-TCCATTCCAAAGGGCAG-3'	r3A1, 3A2, 3A18 991-39-03	2032
stacker	5'-TCCATTCCCAAGGGCAG-3'	r3A9 991-39-04	2033
arrestor SET 2	5'-CCCAGGAACGAGGCG-3'	991-39-02	2034
rat or human 1A1 shorter site 2			
probe	5'-CCGTCACGCCTCCTGTGTGTGAT-HEX-3'	1073-19-02	2035
probe	5'-CCGTCACGCCTCCTGTGTGTGAT-3'	1073-19-01	2036

FIGURE 47BA

probe	5'-CCGTCACGCCCTCCTGTCTGTGAT-NH2-3'	991-12-04	2037
invader	5'-TCCTGACAATGCTCAATGAGGA-3'	r 1A1 500-53-11	2038
invader	5'-TCCTGACAGTGCTCAATCAGGA-3'	h 1A1 500-53-12	2039
stacker	5'-GTCCCGGATGTGGCCC-3'	rat/human 1A1 991-12-06	2040
arrestor	5'-ACATCACAGACAGGAGGCG-3'	500-53-10	2041
SET 2			
probe	5'-CCGTCACGCCCTCCTGTCTGTGATG-NH2-3'	991-12-01	2042
invader		r 1A1 500-53-11	
invader		h 1A1 500-53-12	
stacker	5'-TCCCGGATGTGGCCCT-3'	rat/human 1A1 991-12-03	2043
arrestor	5'-CATCACAGACAGGAGGCG-3'	991-12-02	2044
SET 2			
probe	5'-CCGTCACGCCCTCCTGTCTGTGATGT-NH2-3'	500-53-09	2045
invader		r 1A1 500-53-11	
invader		h 1A1 500-53-12	
stacker	5'-GTCCCGGATGTGGCCC-3'	rat/human 1A1 991-12-06	2046
arrestor	5'-ATCACAGACAGGAGGCG-3'	991-12-05	2047
SET 2			
rat or human 1A1 site 1			
probe	5'-CCGTCACGCCCTCTGGCCCTTC-NH2-3'	500-53-04	2048
invader	5'-CTGTCTGTGATGTCCCGGATGA-3'	500-53-03	2049
stacker	5'-TCAAATGTCTGTAGTGCTC-3'	rat 1A1 500-53-06	2050
stacker	5'-TCAAAGGTTTGTAGTGCTC-3'	human 1A1 500-53-07	2051
arrestor	5'-GAAGGGCCAGAGGCG-3'	500-53-05	2052
SET 2			
probe	5'-CCGTCACGCCCTCTGGCCCTTCTC-NH2-3'	500-53-01	2053
invader		500-53-03	
arrestor	5'-GAGAAAGGGCCAGAGGCG-3'	500-53-02	2054
SET 2			
Rat/Human 1A1 site 2			
probe	5'-CCGTCACGCCCTCCTGTCTGTGATGT-NH2-3'	500-53-09	2055
invader	5'-TCCTGACAATGCTCAATGAGGA-3'	r 1A1 500-53-11	2056
invader	5'-TCCTGACAGTGCTCAATCAGGA-3'	h 1A1 500-53-12	2057
stacker	5'-CCCGGATGTGGCCCT-3'	rat/human 1A1 500-53-14	2058
arrestor	5'-ACATCACAGACAGGAGGCG-3'	500-53-10	2059

FIGURE 47BB

SET 2				
rat or human 1A2 sites				
probe	5'-AACGAGGCGCACGGACTGTTTTCTGC-HEX-3'	1073-19-04	2060	
probe	5'-AACGAGGCGCACGGACTGTTTTCTGC-3'	1073-19-03	2061	
probe	5'-AACGAGGCGCACGGACTGTTTTCTGC-NH2-3'	500-53-15	2062	
invader	5'-CTTGTTGAAGTCTTGATAGTGTTCCTC-3'	rat 1A2 500-53-17	2063	
invader	5'-CTTGTCAAAAGTCCTGATAGTGCTCCTC-3'	human 1A2 500-53-18	2064	
arrestor	5'-GCAGAAAAACAGTCCGTGCGC-3'	500-53-16	2065	
SET 1				
shorter h2C19 design site 3				
probe	5'-AACGAGGCGCACGATGTCCATCG-NH2-3'	971-48-01	2066	
invader	5'-GCAATCAATAAAGTCCCGAGGGTTGTTTC-3'	971-26-11	2067	
stacker	5'-ATTCTTGGTGTTCTTTACTTTCTC-3'	971-48-03	2068	
arrestor	5'-CGATGGACATCGTGCGC-3'	971-48-02	2069	
SET 1				



FIGURE 47BC

Human IL-10

Oligo Type	Sequence
probe	aacgaggcgcaacaactcactcagct-NH2
arrestor	apccatgagtggttgctg
probe	aacgaggcgcaacaactcactcagct-NH2
arrestor	gccatgagtggttgctg
arrestor	gccatgagtggttgctg
arrestor	gccatgagtggttgctg
arrestor	gccatgagtggttgctg
probe	gccatgagtggttggtgccc
stacker	aacgaggcgcaacaactcactcagct-NH2
arrestor	ctttgacatgcctctcttgagc
probe	ccatgagtggttgctg
stacker	aacgaggcgcaacaactcactcag-NH2
arrestor	gctttgacatgcctctcttgag
probe	catgagtggttgctg
stacker	aacgaggcgcaacaactcactcact-NH2
stacker	ggctttgacatgcctctcttgga
arrestor	atgagtggttgctg
probe	cggcagcgcctcaaacactcactcact-NH2
arrestor	atgagtggttggtgccc
invader	tagctctcatgtagtgtagaagatga
invader	gtcatgaggctctcagtagtgtagaagatga

Mouse IL-4

Oligo Type	Sequence
probe	aacgaggcgcactctctcttgtaacctg
arrestor	cgaggcacaggagagtg
probe	aacgaggcgcactctctcttgtaacct-NH2
arrestor	aggcacaggagagtg
probe	cgatcacgtctctctcttgtaacct-NH2
arrestor	aggcacaggagagagag
arrestor	aggcacaggagagagagac
probe	aaccagtcgactctctcttgtaacct
arrestor	aggcacaggagagagac
probe	ccagtcgactctctctcttgtaacct
arrestor	aggcacaggagagtg
probe	aaccacgcgcactctctcttgtaacct
probe	aacgaggcgcactctctcttgtaacct
arrestor	ggcacaggagagtg
probe	aacgaggcgcactctctcttgta-NH2
stacker	ctcgtgttcaaaagccgagatctctc
arrestor	tcacaggagagtgccc
invader	atccatctctgtagtggtggtccctta
invader	atccatctctgtagtggtggtccctta
probe	aacgaggcgcaaccctctctcttgtaacct-NH2
arrestor	gtcacaggagaggggtg
probe	aacgaggcgcaaccctctctcttgta-NH2
arrestor	acaggagaggggtg
invader	ggcacatccatctctctgtagagtgga
probe	cggtcacgacctctctctcttgtaacct-NH2

Oligo Number	Secondary Cassette	Comments	SEQ ID NO
511-31-01	FV-1 & FV-2	3' amine	2070
511-31-02	FV-1 & FV-2	All 2'-Ome + 3' amine arrestor for 511-31-01	2071
511-30-01	FV-1 & FV-2	3' amine	2072
511-30-02	FV-1 & FV-2	All 2'-Ome + 3' amine arrestor for 511-30-01	2073
380-89-02		All 2'-Ome Same as 380-82-02	2074
380-89-04		All 2'-Ome Same as 380-82-04	2075
380-89-06		All 2'-Ome Same as 380-82-06	2076
380-89-08		All 2'-Ome Same as 380-82-08	2077
511-67-01	FV-1 & FV-2	3' amine	2078
781-79-01		stacker for 511-67-01 All 2'Ome	2079
781-79-02		all 2'Ome arrestor for 511-67-01	2080
781-80-01	FV-1 & FV-2	3' amine	2081
781-80-02		stacker for 781-80-01 All 2'Ome	2082
781-80-03		all 2'Ome arrestor for 781-80-01	2083
781-81-01	FV-1 & FV-2	3' amine	2084
781-81-02		stacker for 781-81-01 All 2'Ome	2085
938-74-01		stacker for 781-81-01 All 2'Ome to replace 781-81-02	2086
781-81-03		all 2'Ome arrestor for 781-81-01	2087
938-46-02	MO4-1/MO4-2/MO4-3	all as 938-46-01 w/ 3' amine	2088
938-46-03		all 2'Ome arrestor for 938-46-01&02	2089
380-59-02		longer invader 380-59-02	2090
511-32-01			2091
Oligo Number	Secondary Cassette	Comments	
511-14-01	FV-1 & FV-2		2092
511-14-02	FV-1 & FV-2	All 2'-Ome + 3' amine arrestor for 511-14-01	2093
511-12-01	FV-1 & FV-2	458-34-01 with 3' amine	2094
511-02-01	MO2	All 2'-Ome + 3' amine arrestor for 458-34-01	2095
511-16-01		3' amine	2096
511-16-02		All 2'-Ome + 3' amine arrestor for 511-16-01	2097
511-50-01		All 2'-Ome + 3' amine arrestor for 511-16-01	2098
458-35-01	MISC-1		2099
511-03-01		All 2'-Ome + 3' amine arrestor for 458-35-01	2100
458-35-02	MISC-1		2101
511-04-01		All 2'-Ome + 3' amine arrestor for 458-36-01	2102
458-36-01	MISC-2		2103
511-13-01	FV-1 & FV-2		2104
511-13-02			2105
781-71-01	FV-1 & FV-2	3' amine	2106
781-71-02		All 2'-Ome for 781-71-01	2107
781-71-03		All 2'-Ome arrestor for 781-71-01	2108
380-32-01		Same as 380-32-01 but underlined base is mismatch to sequence	2109
380-32-02			2110
511-44-01	FV-1 & FV-2	3' amine	2111
511-44-02		All 2'-Ome + 3' amine arrestor for 511-44-01	2112
511-68-01	FV-1 & FV-2	3' amine	2113
511-68-02		All 2'-Ome + 3' amine arrestor for 511-68-01	2114
511-45-01			2115
511-46-01	MO4-1/MO4-2/MO4-3	3' amine	2116

FIGURE 47BD

arrestor	acgaggtcacaggaggagc	511-46-02	MO4-1/MO4-2/MO4-3	All 2'-Ome + 3' amine arrestor for 511-46-01	2117
probe	cggtaacgctctctctgtaacc-NH2	511-69-01		3' amine	2118
arrestor	gaggtcacaggaggagc	511-69-02	MO4-1/MO4-2/MO4-3	All 2'-Ome + 3' amine arrestor for 511-69-01	2119
probe	cggtaacgctctctctgtaacc-NH2	781-88-01		3' amine	2120
stacker	loggttcaaaatgcgatgactctctca	781-88-02		All 2'Ome stacker for 781-88-01	2121
arrestor	gggtcacaggaggaggcg	781-88-03	MO4-1/MO4-2/MO4-3	All 2'-Ome arrestor for 781-68-01	2122
probe	cggtaacgctctctctgtaac-NH2	781-69-01		3' amine	2123
stacker	ctcgggttcaaaatgcgatgactctctca	781-69-02		All 2'Ome stacker for 781-69-01	2124
arrestor	gtcacaggaggaggcg	781-89-01		All 2'-Ome arrestor for 781-69-01	2125
invader	acatccatctctcgtgcatggcgccctta	511-47-01			2126
probe	cagtaacgctctctctctctct-NH2	511-17-01	MO2	3' amine	2127
arrestor	aggagaaggagagagcg	511-17-02		All 2'-Ome + 3' amine arrestor for 511-17-01	2128
invader	gcataccatctctcgtgcatggcgga	511-18-01			2129
probe	cgcggagatcaactctctgtaacc-NH2	781-83-01	TT-1/TT-2	3' amine	2130
arrestor	gggtcacaggaggatgc	781-83-02		All 2' Ome arrestor for 781-83-01	2131
probe	cggtaacgctctctctgtaacc-NH2	781-82-01	MO4-1/MO4-2/MO4-3	3' amine	2132
invader	cgcgtatggcggtccctctca	781-82-02			2133
arrestor	gggtcacaggaggagcg	781-82-03		All 2' Ome arrestor for 781-82-01	2134
probe	cggtaacgctctctctgtaacc-NH2	781-84-01	MO4-1/MO4-2/MO4-3	3' amine	2135
invader	gtgtcatggcggtccctctca	781-84-02			2136
arrestor	gggtcacaggaggaggcg	781-84-03		All 2' Ome arrestor for 781-84-01	2137
Mouse IL-2					
Oligo Type	Sequence	Oligo Number	Secondary Cassette	Comments	
probe	cagtaacgctctctctgtaacc-NH2	511-19-01	MO2	3' amine	2138
arrestor	aggtaacgctctctgtaacc-NH2	511-19-02		All 2'-Ome + 3' amine arrestor for 511-19-01	2139
invader	gcactcaaa(ggtgtg)Cagagccca	511-20-01			2140
Mouse IFN-γ					
Oligo Type	Sequence	Oligo Number	Secondary Cassette	Comments	
probe	cagtaacgctctctctctgtaacc-NH2	511-24-01	MO2	3' amine	2141
arrestor	ggaaclgpcaaaaggagagagcg	511-24-02		All 2'-Ome + 3' amine arrestor for 511-24-01	2142
probe	cagtaacgctctctctctgtaacc-NH2	511-23-01	MO2	3' amine	2143
arrestor	gaactggcaaaaggagagagcg	511-23-02		All 2'-Ome + 3' amine arrestor for 511-23-01	2144
probe	cagtaacgctctctctctgtaacc-NH2	511-21-01	MO2	3' amine	2145
arrestor	aactggcaaaaggagagagcg	511-21-02		All 2'-Ome + 3' amine arrestor for 511-20-01	2146
invader	gctctgcaggatttctcatgcaacca	511-22-01			2147
Human TNF-α					
Oligo Type	Sequence	Oligo Number	Secondary Cassette	Comments	
probe	cgcggagatcaactctgactgcgcg-NH2	511-77-01	TT-1/TT-2	3' amine (based on 685-27-01-1 base shorter)	2148
arrestor	caggcagatcagatgactcgg	511-77-02		All 2'-Ome + 3' amine arrestor for 511-77-01	2149
probe	cgcggagatcaactctgactgcgcg-NH2	511-78-01	TT-1/TT-2	3' amine (based on 685-27-01-2 bases shorter)	2150
arrestor	aggcagatcagatgactcgg	511-78-02		All 2'-Ome + 3' amine arrestor for 511-78-01	2151
invader	ctt gtc act cgg ggt tgg aga aga tga a	685-28-01			2152
Human IL-1β					
Oligo Type	Sequence	Oligo Number	Secondary Cassette	Comments	
probe	gcgcgtacgctctctctctgtttaggcc-NH2	511-79-01	MO4-1/MO4-2/MO4-3	3' amine (based on 685-21-01)	2153

FIGURE 47BE

arrestor	ggccctaaacagatgagagggt	511-80-01	All 2'-Ome + 3' amine arrestor for 511-79-01	2154
arrestor	ggccctaaacagatgagagggtga	511-80-02	All 2'-Ome + 3' amine arrestor for 511-79-01	2155
invader	caggctctggaggagpacta	685-23-01		2156
<b>Human IL-6</b>				
Oligo Type	Sequence	Oligo Number	Secondary Cassette	Comments
probe	gcgcgcacgcctctctctcattgaatcc-NH2	511-81-01	MO4-1/MO4-2/MO4-3	3' amine (based on 685-16-01)
arrestor	aggatccaatgagagagagcggtga	511-82-01		All 2'-Ome + 3' amine arrestor for 511-81-01
arrestor	aggatccaatgagagagagcggt	511-82-02		All 2'-Ome + 3' amine arrestor for 511-81-01
probe	cgcgcacgcctctctctcattgaatcc-NH2	781-27-01	MO4-1/MO4-2/MO4-3	3' amine (511-81-01 with new arm)
arrestor	aggatccaatgagagagagcggt	781-27-02		All 2'-Ome + 3' amine arrestor for 781-27-01
probe	gcgcgcacgcctctctctcattgaatcc-NH2	511-83-01	MO4-1/MO4-2/MO4-3	3' amine (based on 685-16-01)
arrestor	ggatccaatgagagagagcggtga	511-84-01		All 2'-Ome + 3' amine arrestor for 511-81-01
arrestor	ggatccaatgagagagagcggt	511-84-02		All 2'-Ome + 3' amine arrestor for 511-81-01
probe	cgcgcacgcctctctctcattgaatcc-NH2	781-28-01	MO4-1/MO4-2/MO4-3	3' amine (511-83-01 with new arm)
arrestor	ggatccaatgagagagagcggt	781-28-02		All 2'-Ome + 3' amine arrestor for 781-28-01
probe	cgcgcacgcctctctctcattgaatcc-NH2	781-29-01	MO4-1/MO4-2/MO4-3	3' amine (1 base shorter than 781-28-01)
arrestor	ggatccaatgagagagagcggt	781-29-02		All 2'-Ome + 3' amine arrestor for 781-29-01
probe	cgcgcacgcctctctctcattgaatcc-NH2	781-30-01	TT-1/TT-2	3' amine (781-29-01 with new arm)
arrestor	ggatccaatgagagagagcggt	781-30-02		All 2'-Ome + 3' amine arrestor for 781-30-01
invader	cca aaa gtc cag tga tta tta cca ggc aag a	685-18-01		
<b>Secondary Cassettes</b>				
SRT	cggagaagaagcagttgggtgcgcctcattaaNH2	277-68-05	FV-1	2172
FRET probe	Fcaac(Cy3)gctctctccg	187-46-01		2173
SRT	ccaggagaagcaagtggtgcgcctcgttt	685-23-01	FV-2	2174
FRET probe	Fcaac(Z21)gctctcgagg	787-29-02		2175
SRT	cggagaagaagcagttggagcggtgaagcNH2	641-60-03	MO4-1	2176
FRET probe	Fcaac(Cy3)gctctctccg	187-46-01		2177
SRT	cggagaagaagcagttggagcggtgaagcNH2	562-93-01	MO4-2	2178
FRET probe	Fcaac(Cy3)gctctctccg	187-46-01		2179
SRT	ccaggagaagcagttggagcggtgaagcgu	685-23-02	MO4-3	2180
FRET probe	Fcaac(Z21)gctctcgagg	767-29-02		2181
SRT	cggagaagaagcagttggtgaltcgcgcgcgNH2	562-92-01	TT-1	2182
FRET probe	Fcaac(Cy3)gctctctccg	187-46-01		2183
SRT	cggagaagaagcagttggtgaltcgcgcgcgNH2	685-56-01	TT-2	2184
FRET probe	Fcaac(Cy3)gctctctccg	187-46-01		2185
SRT	gctactgagatgaaggagacgtgaactgtaNH2	491-68-02	MO2	2186
FRET probe	Fcttc(Cy3)ctcagtagc	491-68-01		2187
SRT	cag agg aag cag ttg cgt aag act ggtLaa-NH2	458-35-03	MISC-1	2188
FRET probe	Fcaac(Cy3)gctctctccg	187-46-01		2189
SRT	cgg agg aag cag ttg gtg cgg gtg gtt ggt-PO3	441-31-02	MISC-2	2190
FRET probe	Fcaac(Cy3)gctctctccg	187-46-01		2191

FIGURE 47BF

Oligo sequence descriptions: 5' to 3' direction, 2'-Ome nt's are bolded and underlined, internal modifications defined in ( )

FRET Oligo/SRT Combinations

Set	FRET Oligo	SRT
Set 1	187-46-01	641-60-02
Set 2	187-46-01	690-82-03
Set 3	307-70-02	339-50-03
Set 4	303-18-05	343-63-07
Set 5	303-18-05	343-25-01
Set 6	187-46-01	649-10-01
Set 7	744-80-03	277-068-05N
Set 8	187-46-01	833-18-07
Set 9	767-28-03	777-71-10
Set 10	767-29-02	996-29-01
Set 11	1067-20-01	996-29-01
Set 12	307-70-02	307-70-04
Set 13	491-01-01	491-02-04
Set 14	187-46-01	562-84-01

Oligo #	Oligo Sequence
187-46-01	Fam-CAAC(CY3)GCTTCCTCCG
307-70-02	Fam-ATT(CY3)TCTCAGAC-NH2
303-18-05	Fam-TAAC(CY3)GCTTCCTCCG
744-80-03	Fam-CAA(Dabcyl)TGCTTCCTCCG
767-28-03	Red Dye-CTC(Z-21)TCTCAGTCGG
767-29-02	Fam-CAC(Z-21)TGCTTCGTGG
1067-20-01	Fam-CAC(Z-28)TGCTTCGTGG
491-01-01	Fam-CTT(CY3)TCTCAGAC

SEQ ID NO
2192
2193
2194
2195
2196
2197
2198
2199

Oligo #	Oligo Sequence
641-60-02	CGGAGGAAGCAGTTGGAGCGTGACGGT-NH2
690-82-03	CGGAGGAAGCAGTTGGCGGTGACGGTT
339-50-03	CAGTCTGAGATGAATGAGACGAGAGT-NH2
343-63-07	CGGAGGAAGCGTTAGTCTGTACCGTCAI-NH2
343-25-01	CGGAGGAAGCGTTAGTCTGCCACGTCAI-NH2
649-10-01	CGGAAGACAGTGTGGTGGCCCTCGTAA-NH2
277-068-05N	CGGAGGAAGCAGTTGGTGGCCCTCGTAA-NH2
833-18-07	CGGAGGAAGCAGTTGGCGGTGCGGT-NH2
777-71-10	CGCAGTGAGAAATGAGAGCGGTGACGGU-NH2
996-29-01	CCAGGAAGCAAGTGTGGCCTCGUUU
307-70-04	CAGTCTGAGATGAATGATACGCGAGG-NH2
491-02-04	AGTCTGAGATGAAGGAGACGTGCTGG-NH2
562-84-01	CGGAGGAAGCGGTTGGTGATCTCGGCG-NH2

SEQ ID NO
2200
2201
2202
2203
2204
2205
2206
2207
2208
2209
2210
2211
2212

Oligo Type	Oligo #	Oligo Sequence	Notes	Position	SEQ ID NO
Human IL-2					
Probe	196-56-01	TCTGTGGCGTATCCTTCTTGGGCATGTAA		Splice Junction 2	2213
Probe	196-56-02	GTGGCGTATCCTTCTTGGGCATGTAA			2214
Probe	196-56-03	GGGTATCCTTCTTGGGCATGTAA			2215
Invader	128-93-02	GAAGATGTTTCAGTCTGTGGG(ddC)	ddC = diideoxy C		2216
Capture Oligo	145-030-05	AAAAGATACGCCACAGAACACG(BIOTIN-3A)TT			2217
Probe	315-28-01	TGGCGTATCTTAATTCACATCAAAAT		Splice Junction 1	2218
Invader	315-28-02	TGGGAGTTTGGGATCTTGTAAATTAA			2219

FIGURE 47BG

Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 1	2220
Probe	315-29-01	TGGCGTATCTAAATTAATTCATCTC		2221
Invader	315-29-02	ATCCTGGTGAGTTTGGGATCTTGA		2222
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 1	2223
Probe	315-29-03	TGGCGTATCTTCCATTCAAAATCATC		2224
Invader	315-29-04	GTTTGGGATCTTGTAATTATTA		2225
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 2	2226
Probe	315-30-01	GTGGCGTATCCTCTCTGGGCAT		2227
Invader	315-30-02	GAAAGTGTTCCTCAGTTCTGTGGC		2228
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC		2229
Human b-actin				
Probe	315-26-01	TGGCGTATCTCTGGGTCACTCTTC	Splice Junction 3	2230
Invader	315-26-02	GGGTGTGAAGGTTCTCAACATGAA		2231
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 5	2232
Probe	315-27-01	TGGCGTATCTCTGATCTCTCATTTGT		2233
Invader	315-27-02	ACTTGGCGTCAAGGAGGAGCAATGAA		2234
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 3	2235
Probe	315-91-01	TGSCGTATCTGATCTGGGTCTATCT		2236
Invader	315-91-02	TGGCTGGGGTGTGAAGGTCTCAACAA		2237
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 4	2238
Probe	315-92-01	ACCCGTATCTGCCACAGGAAGGA		2239
Invader	315-92-02	AGTTTCGTGGATGCCACAGAGAGCCAA		2240
Invader	315-92-03	AGTTTCGTGGATGCTACAGGAGACCAA		2241
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 3	2242
Probe	340-32-01	TGGCGTATCTCTCAACATGATCT		2243
Invader	340-32-02	ACGTACATGGCTGGGGTGTGAAGGA		2244
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 3	2245
Probe	340-33-01	TGGCGTATCTGATCTGGGTCTC		2246
Invader	340-33-02	TGGCTGGGGTGTGAAGGTCTCAACAA		2247
Capture Oligo	195-023-01	AAAAGATACGCCACAGC(BIOTIN-dTTC	Splice Junction 3	2248
Probe	740-01-01	CCGTACAGCCTCGCCTTGGGGTTC		2249
Invader	740-01-02	TCTGGGTCACTCTCTCGGGGTTGA		2250
Arrestor	740-01-03	GAAGCCCGAGGGCGAGGGGT		2251
Secondary Cassette		Set 1	Splice Junction 3	2252
Probe	740-01-08	CCGTACAGCCTCGGTCATCTTCT		2253
Stacker	740-01-04	CGGGTTGGCCTTGGGGTT		2254
Invader	740-01-06	CTGGGGTGTGAAGGTCTCAACATGATCC		2255
Arrestor	740-01-09	AGAAGATGACCCCATGGCGG		
Secondary Cassette		Set 2		
Mouse GAPDH				
Probe	425-59-01	FI-CTCTCTCGTCTCTCCTGGAAGA	Splice Junction 4	2256
Invader	425-59-02	ATTGATGTTAGTGGGGTCTCGCA		2257
Probe	425-60-01	FI-CTCTCTCGTCTCTGCTGACAATC	Splice Junction 6	2258
Invader	425-60-02	GCAATTGGTGGTGGAGGATGCATA		2259
Probe	425-61-01	FI-CTCTCTCGTCTCTACAGGAAATG	Splice Junction 8	2260
Invader	425-61-02	GCTGTAGCCGTATTCATTGTCAA		2261
Probe	425-80-01	FI-CTCTCTCGTCTCTCTGGAAG	Splice Junction 4	2262
Invader	425-80-02	CATTGTAGTTAGTGGGGTCTCGA		2263
Probe	425-87-01	CTCTCTCGTCTCTCTGGAAGA	Splice Junction 4	2264
Invader	425-59-02	ATTGATGTTAGTGGGGTCTCGCA		2265
Arrestor	425-87-04	ICTTCCAGGAGAGAGG		2266
Secondary Cassette		Set 3		
Probe	425-87-02	CTCTCTCGTCTCTCTCTGGAAG	Splice Junction 4	2267
Invader	425-80-02	CATTGTAGTTAGTGGGGTCTCGA		2268

FIGURE 47BH

Arrestor	425-87-05	<b>CTTCCAGGAGGAGACG</b>	2269
Secondary Cassette		Set 3	
Probe	425-87-03	CTCTCTGTCCTCTACAGGAAATG	2270
Invader	425-61-02	GCTGTAGCCGTATTCATTGTCAA	2271
Arrestor	425-87-06	<b>CAITTCCTGGTAGAGACG</b>	2272
Secondary Cassette		Set 3	
Probe	453-23-01	ATGACGTGACAGACCTCTCTGGAAGAT	2273
Probe	453-23-03	ATGACGTGACAGACCTCTCTGGAAGATG	2274
Invader	425-80-02	CAITTTGATGTTAGTGGGTCTCGA	2275
Arrestor	453-23-04	<b>CAITCTTCCAGGAGGTCIGI-NH2</b>	2276
Secondary Cassette		Set 4	
Probe	453-23-02	ATGACGTGGCAGACCTCTCTGGAAGAT	2277
Invader	425-80-02	CAITTTGATGTTAGTGGGTCTCGA	2278
Arrestor	453-23-05	<b>AITCTCCAGGAGGTCIGC-NH2</b>	2279
Secondary Cassette		Set 5	
Probe	435-87-04	CAGTCACGTCTCTCAGGTTTTG	2280
Invader	395-05-07	AGGCAGCTCTCAGGTCAGGTGTGA	2281
FRET Probe - Secondary Reaction	524-51-01	FLCTTTCy3TCTCAGTAGCG	2282
Secondary Reaction Template	524-51-03	CGCTACTGAGATGAAGGAGACGTGACTGTA-NH2	2283
Secondary Reaction Template	524-51-04	CGCTAATGAGATGAAGGAGACGTGACTGTA-NH2	2284
Probe	435-87-04	CAGTCACGTCTCTCAGGTTTTG	2285
Invader	395-05-07	AGGCAGCTCTCAGGTCAGGTGTGA	2286
FRET Probe - Secondary Reaction	524-51-02	FLCTTTCy3TCTCAGTAGCGA	2287
Secondary Reaction Template	524-51-05	TCGCTACTGAGATGAAGGAGACGTGACTGTA-NH2	2288
Secondary Reaction Template	524-51-06	TCGCTAATGAGATGAAGGAGACGTGACTGTA-NH2	2289
Human Ubiquitin			
Probe	796-72-01	AACGAGGCGCACCTTTACATTTTCTATCGTATCC	2290
Invader	428-81-02	CGTCTCTATCTCTGGATCTTTGGCA	2291
Arrestor	796-72-02	<b>GGATACGATAGAAAATGTAAAGGTCGC</b>	2292
Secondary Cassette		Set 6	
Probe	796-72-03	AACGAGGCGCACCTTTACATTTTCTATCGTATC	2293
Invader	428-81-02	CGTCTCTATCTCTGGATCTTTGGCA	2294
Arrestor	796-72-04	<b>GATACGATAGAAAATGTAAAGGTCGC</b>	2295
Secondary Cassette		Set 6	
Probe	820-35-01	AACGAGGCGCACCTTTACATTTTCTATCG	2296
Probe	820-35-02	AACGAGGCGCACCTTTACATTTTCTATCGT	2297
Invader	428-81-02	CGTCTCTATCTCTGGATCTTTGGCA	2298
Arrestor	820-35-03	<b>ACGATAGAAAATGTAAAGGTCGC</b>	2299
Secondary Cassette		Set 7	
Probe	820-88-01	AACGAGGCGCACCTTTACATTTTCTATCGT-NH2	2300
Probe	820-88-02	AACGAGGCGCACCTTTACATTTTCTATCGTU	2301
Probe	820-88-03	AACGAGGCGCACCTTTACATTTTCTATCGTG	2302
Secondary Cassette		Set 7	
Probe	820-88-04	AACGAGGCGCACCTTTACATTTTCTATCGTT	2303
Invader	428-81-02	CGTCTCTATCTCTGGATCTTTGGCA	2304
Arrestor	820-35-03	<b>ACGATAGAAAATGTAAAGGTCGC</b>	2305
Secondary Cassette		Set 7	
Probe	847-65-01	GCGGCACGCGCTTTACATTTTCTATCGT	2306
Invader	428-81-02	CGTCTCTATCTCTGGATCTTTGGCA	2307
Arrestor	847-65-02	<b>ACGATAGAAAATGTAAAGGTCGC</b>	2308
Arrestor	847-65-03	<b>ACGATAGAAAATGTAAAGGTCGC</b>	2309
Secondary Cassette		Set 8	
Probe	936-61-01	AACGAGGCGCACCTTTACATTTTCTATCGTATCCG	2310
Invader	428-81-02	CGTCTCTATCTCTGGATCTTTGGCA	2311

Same as 425-61-01 without Fluorescen

Splice Junction 4

Splice Junction 4

119

Same as 820-35-02 with 3' Amine  
Same as 820-35-02 with O-Me U for Blocking  
Same as 820-35-02 with O-Me G for Blocking  
Same as 820-35-02 with T for Blocking. The T is a mismatch against the RNA sequence.

Same as 428-87-01 without Biotin blocking group

FIGURE 47BI

Arrestor Secondary Cassette	936-61-02	CGGATACGATAGAAAATGTAAAGGTGCGC Set 7	Same as 428-87-03 without Biotin blocking group	2312
Monocyte Chemotactic Protein 1 (MCP-1)				
Probe	820-89-01	CCGTCACGGCTCTTCGGAGTTTGGG		2313
Invader	885-76-01	GGGTTGTGGAGTAGTGTTCAAGTA		2314
Arrestor	820-89-02	CCCAAACTCCGAAGGAGGGC Set 9	Same as 720-92-01 without the amine	2315
Secondary Cassette				
MAGE-3				
Probe	1001-01-01	FTTTTCTGGAAGCTTTGCT		2316
Invader	871-18-03	CGATGCCAAAGACGCTGCAAGGAAG		2317
Stacker	871-18-01	GAAGATCACAGGAAGAAATAC		2318
Stacker	1138-50-01	GCAGCTCTTGGGA		2319
Probe	1138-50-02	AACGAGCGGCACGTTGGTGGA		2320
Stacker	1138-50-03	GCAGCTCTTGGGACT		2321
Probe	1138-50-04	AACGAGCGGCACGTTGGGTGAG		2322
Invader	1138-50-05	CTCCAGGTAGTTTCTCTGCACGAAATC		2323
Arrestor	1138-50-06	CTACCCCAAGGTGCGC Set 10		2324
Secondary Cassette			Same analyte specific Region as 871-18-02.	
Stacker	1138-51-01	AGCTCTTGGGATC		2325
Probe	1138-51-02	AACGAGCGGCACGTTGGTGAGC		2326
Stacker	1138-51-03	GCCTCTTGGGATCG		2327
Probe	1138-51-04	AACGAGCGGCACGTTGGGTGAGCA		2328
Invader	1138-51-05	CAGGTAGTTTCTCTGCACGAAATGA		2329
Arrestor	1138-51-06	IGCTCACCCCAAGTGCGC Set 11		2330
Secondary Cassette				
Stacker	1138-67-01	IGCAGGATCACTGCG		2331
Probe	1138-67-02	AACGAGCGGCACCAATTCATAACA		2332
Invader	1138-67-03	GGCCCTTGGACCCCA		2333
Arrestor	1138-67-04	IGTATGAATGGTGGTGCGC Set 11		2334
Secondary Cassette				
Stacker	1138-67-05	CAIGCAGGATCACTGC		2335
Probe	1138-67-06	AACGAGCGGCACACCAATTCATAA		2336
Invader	1138-67-07	AGGCCCTTGGACCCA		2337
Arrestor	1138-67-08	ITATGAATGGTGGTGCGC Set 11		2338
Secondary Cassette				
Human Oncostatin M				
Probe	339-30-02	CTGGCGGTATCTAGGGCTCCA		2339
Invader	264-42-03	GTGTTCAGGTTTTGGAGCGGATAA		2340
Arrestor	374-32-01	CTTGGAGCCCTAGATAC-NH2		2341
Arrestor	374-32-02	CTTGGAGCCCTAGATACG-NH2		2342
Arrestor	374-32-03	CTTGGAGCCCTAGATACG-NH2 Set 12		2343
Secondary Cassette				
Probe	524-39-01	CAGTCACGTCTCTTCAGGTTTTG-NH2		2344
Invader	395-05-07	AGGCAGCTCTCAGGTGAGTGTA		2345
Stacker	435-40-02	GAGCGGATATAGGGCTCCA		2346
Arrestor	369-47-07	CAAAACCTGAAGAGACG-NH2 Set 13	Same as 435-67-04 with 3' Amine	2347
Secondary Cassette				
Probe	1088-74-01	AACGAGCGGCACCCCTCTGTGTG		2348
Arrestor	1088-74-02	CACACAGAGGGTGCGC		2349
Probe	1088-74-03	AACGAGCGGCACCCCTCTGTGTG-NH2		2350
Probe	1088-74-04	AACGAGCGGCACCCCTCTGTGTG-HEX		2351
Invader	603-75-03	GCAAGGACCAGACTGAGACGGTA	HEX = Hexanediol	2352

FIGURE 47BJ

Slacker	752-01-05	AGCAGTACCCCGCATG	2353
Arrestor	841-52-04	CACACAGAGGAGCG-NH2	2354
Secondary Cassette		Set 10	
Probe	1138-49-02	AACGAGCGCACCTTCTGGAG-NH2	2355
Slacker	1138-49-01	CIGGCCAAGGAG	2356
Invader	1138-49-03	GTCTGCTGATGAGATCTGTCTGA	2357
Arrestor	1138-49-04	CTCCGAAAGGTGGCG	2358
Secondary Cassette		Set 11	
Probe	1138-49-06	AACGAGCGCACTCTGCTTCT-NH2	2359
Slacker	1138-49-05	GGAGCIGGCCAA	2360
Invader	1138-49-07	TGGTGCTCTGCATGAGATCTGA	2361
Arrestor	1138-49-08	ICCAGAGCAGAGTGGCG	2362
Secondary Cassette		Set 11	
Probe	1138-49-10	AACGAGCGCACCATGAGATCT-NH2	2363
Slacker	1138-49-09	GTGTGCTCTGGGA	2364
Invader	1138-49-11	GAGTCTGCTGGTGTCCCTGA	2365
Arrestor	1138-49-12	AGATCTCATGTGGCGC	2366
Secondary Cassette		Set 11	
Probe	1163-01-01	TGGCCAAGGAGCA	2367
Slacker	1163-01-02	AACGAGCGCACTTCTGGAGC-NH2	2368
Invader	1163-01-03	TCCTGCATGAGATCTGTCTGCA	2369
Arrestor	1163-01-04	GCTCCAGAAGTGGCG	2370
Secondary Cassette		Set 11	
Probe	1163-01-05	GGCCAAGGAGCAC	2371
Slacker	1163-01-06	AACGAGCGCACTCTGGAGCT-NH2	2372
Invader	1163-01-07	CCTGCATGAGATCTGTCTGCTA	2373
Arrestor	1163-01-08	AGCTCCAGAGTGGCG	2374
Secondary Cassette		Set 11	
Probe	1163-01-09	GGCCAAGGAGCACG	2375
Slacker	1163-01-10	AACGAGCGCACTCTGGAGCTC-NH2	2376
Invader	1163-01-11	CCTGCATGAGATCTGTCTGCTTA	2377
Arrestor	1163-01-12	GAGCTCCAGGTGGCG	2378
Secondary Cassette		Set 11	
84H6r			
Probe	688-51-01	CGCGAGATCACGCCAACGACGGTCT	2379
Invader	688-51-02	AGCCTTGAGTTTAACTTCATAGGCACTA	2380
Arrestor	688-51-03	AGACCCGTGTGGGTGAIC	2381
Secondary Cassette		Set 14	
Probe	688-51-04	CGCGAGATCACCTCAACACCAATAAAGCCA	2382
Invader	688-51-05	CGGAGACTGAGGAATACGTACCACCA	2383
Arrestor	688-51-06	TGGCTTTAIGGTGTGAGGTGAIC	2384
Secondary Cassette		Set 14	
MSH2			
Probe	690-32-02	CCGTCACGCCCTCCGAACCTGCCCTAG	2385
Invader	690-32-04	GTATAATAGTCCCGACGATCAAAAGGC	2386
Slacker	709-52-01	GGTCTTGGGYAGGG	2387
Arrestor	690-32-05	GCGGAGGCTTCACGGGATC	2388
Secondary Cassette		Set 1	



FIGURE 47BK

bold indicates 2' O methyl base

ELISA Format Kits

Leukocyte-associated molecule-1 alpha subunit, human (h-LFA1)

G4731 Probe Set

p  
l  
c

5'-CTCTCTCTCTCCAGGGCGTCGTCGG-PO4-3'  
5'-CTGTACACACGTCGGTCTGA-3'  
5'-AAAAAGGAGACGAGAGAGTG-3'

2389  
2390  
2391

SEQ ID NO

for the remainder of the oligo sets on this list, the fret/target secondary sets are one of the following 11:

FRET/TARGET SETS

	FRET	TARGET
set 1	307-70-03	502-93-01
set 2	307-70-03	502-93-02
set 3	187-46-01	641-60-02
set 4	187-46-01	277-68-05
set 5	187-46-01	685-56-01
set 6	187-46-01	641-60-03
set 7	187-46-01	649-10-01
set 8	680-17-02	782-70-02
set 9	187-46-01	277-68-06
set 10	187-46-01	491-02-02
set 11	307-70-03	761-40-02

FRETS

307-70-03  
187-46-01  
680-17-02

5'-Fam-ATT(CY3)TCTCAGACT-NH2-3'  
5'-Fam-CAAC (CY3)GCTTCCTCCG-3'  
5'-Fam-CGCT (CY3)TCTCGCTCGC-3'

2392  
2393  
2394

TARGETS

502-93-01  
502-93-02  
641-60-02  
277-68-05  
685-56-01  
641-60-03  
649-10-01  
782-70-02  
277-68-06  
491-02-02

5'-CAGTCTGAGATGAATGATACGAGAGAGT-NH2-3'  
5'-CAGTCTGAGATGAATGAGACGAGAGAGT-NH2-3'  
5'-CGGAGGAAGCAGTTGGAGGCGTGACGGT-NH2-3'  
5'-CGGAGGAAGCAGTTGGTGCCTCGTTAA-PO4-3'  
5'-GCGGAAGAAGCGGTTGGTATCTCGGCGG-NH2-3'  
5'-CGGAAGAAGCAGTTGGAGGCGTGACGGT-NH2-3'  
5'-CGGAAGAAGCAGTTGGTGCCTCGTTAA-NH2-3'  
5'-GCGAGAGAGACAGCGCAACCTGCCGTTG-3'  
5'-CGGAGGAAGCAGTTGTCGCGAAGATG-3'  
5'-CGGAAGAAGCAGTTGGAGACGTGACTGTGG-NH2-3'

2395  
2396  
2397  
2398  
2399  
2400  
2401  
2402  
2403  
2404

FIGURE 47BL

761-40-02		5'-GGAGTGAGACAGCGAAAGACTGCCGGTTCT-3'	2405
<b>Cell Lysate Kits</b>			
adipocyte lipid binding protein, mouse (m-aP2)			
C289 Probe Set			
I	FRET/TARGET SET 1		2406
p	5'-CCGCCATCTAGGGTTATGATGCTA-3'		2407
a	5'-CTCTCTCGTCTCCTTCACCTTCCTGTCG-NH2-3'		2408
a	3'-PO4-AGCAGAGGAAGTGGAAAGGACAGC-5'		2409
a	3'-NH2-AGCAGAGGAAGTGGAAAGGACAGC-5'		2410
p	3'-PO4-AGAGCAGAGGAAGTGGAAAGGACAGC-5'		2411
p	5'-AACGAGGCGACCTTCACCTTCCTGTCG-NH2-3'		2412
a	5'-AACGAGGCGACCTTCACCTTCCTGTCG-Biotin-3'		2413
a	3'-PO4-CCGCGTGGAAAGTGGAAAGGACAGC-5'		2414
p	3'-PO4-CTCCGCGTGGAAAGTGGAAAGGACAGC-5'		2415
a	5'-CATCTTCGCGGACTTCACCTTCCTGTCG-NH2		2416
a	3'-PO4-GCCTGAAGTGGAAAGGACAGC-5'		2417
a	3'-PO4-GCGCCTGAAGTGGAAAGGACAGC-5'		2418
p	5'CTTGCTCCCGTGCTTCACCTTCCTGTCG-NH2		2419
p	5'CTTGCTCCCGTGCTTCACCTTCCTGTCG-Biotin		2420
a	3'-PO4-GGGCACGAAGTGGAAAGGACAGC-5'		2421
a	3'-PO4-AGGGGCACGAAGTGGAAAGGACAGC-5'		
G392 Probe Set	FRET/TARGET SET 1		
p	5'-CTCTCTCGTCTCCACATTCCACCACCAG-NH2-3'		2422
I	5'-TTGTGTAAGTCAGCGCCTTCATAAT-3'		2423
rev-ErbA, mouse (m-revErbA			
C155 Probe Set			
p	FRET/TARGET SET 4		2424
I	5'-AACGAGGCGCACGAAGCAGGGTAATGAATCT-NH2-3'		2425
	5'-CCACTCCTGAAGGCTCCGCAGTC-3'		
Carnitine palmitoyltransferase, mouse (m-CPT-1)			
T352 Probe Set			
p	FRET/TARGET SET 2		2426
I	5'-CTCTCTCGTCTCAATGCCTGTCGCC-NH2-3'		2427
	5'-GCTTCAGGGTTGTCGGAAGAAGAAC-3'		
C851 Probe Set	FRET/TARGET SET 2		
p	5'-CTCTCTCGTCTCGTTTGGGGCGATACAT-NH2-3'		2428
I	5'-CGGCTTGATCTCTTCACGGTCCAC-3'		2429
Carnitine palmitoyltransferase, human (h-CPT-1)			

### FIGURE 47BM

Probe set	Sequence	Position
U744 Probe set		
p	5'-CTCTCTCGTCTCAACTTCAAATACCACCTGTAATCT-NH2-3'	2430
i	5'-CTCACGTAATTTGTAGCCACCCAGGAGTTTC-3'	2431
a	3'-NH2-GCAGAGTTGAAGTTTATGGTGACATTAGA-5'	2432
s	5'-TGGTCCAAAGACCGACAGCAAAATCTTGAG-3'	2433
A456 Probe Set		
p	5'-CAGTCACGTCCTTCAGGGAGTAGCGCA-NH2-3'	2434
i	5'-CCCGTGGTAGGAGAGCAGCACTA-3'	2435
a	3'-NH2-GCAGAGAAAGTCCCTCATCGCGT-5'	2436
C759 Probe Set		
p	5'-CTCTCTCGTCTCGGCCACCCAGGATT-NH2	2437
i	5'-CTCCACCCAGTCGCTCACGTAATTTGTAA-3'	2438
a	5'-AATCTCTGGTGGCGGAGACG-B-3'	2439
s	5'-TTAACTTCAAATACCACCTGTAATCTTGGTCCAGACCG-3'	2440
G329 Probe Set		
p	5'-ACCGAGGCGCACCAATTATTCCTAACG-b-3'	2441
i	5'-GCCGTTTCCAGAGTCCGATTGATTTTGA-3'	2442
a	3'-(biotin)-GCGGTGGTTAATAAGGATTGC-5'	2443
C1763 Probe Set		
p	5'-CATCTTCGGGGAGACATTTCTTGATGATTCCTT-3'	2444
i	5'-AAAGGTGCTGGGCTCGTGCT-3'	2445
a	3'-(biotin)-GCCCTCTGTAAAGAACTACTAAGGAA-5'	2446
Phosphatidylinositol-3-phosphate p110 <sub>α</sub> , human (h-PI3Kp110 <sub>α</sub> )		
G1045 Probe Set (FV Arm)		
p	5'-AACGAGGCGCACCAAGTTTCTCTGTG-NH2-3'	2447
i	5'-GACCAGCCCTGACATGAACTTTAC-3'	2448
a	3'-NH2-CGCGTGGTCAAAGGAGACAC-5'	2449
C1521 Probe Set		
p	5'-CTCTCTCGTCTCGGGAGGTAATAAGG-NH2-3'	2450
i	5'-GCTGCCCTTTCAATAATCTTATCGAAC-3'	2451
a	3'-NH2-AGCAGAGCCCTCCCAATTATTCC-5'	2452
C2667 Probe Set		
p	5'-CTCTCTCGTCTCGTTGTATTCCTTAAGCCAG-NH2-3'	2453
i	5'-CGGTCCAGGTCATCCCCAGAC-3'	2454

## FIGURE 47BN

a	3'NH2-AGCAGAGCAACATAAGAAATTCGGTC-5'	2455
G537 Probe Set		
p	FRET/TARGET SET 2	
i	5'-CTCTCTCGTCTCTCTCTGGTGGATATGTTTG-NH2-3'	2456
a	5'-CTAAGTTTTCAGGGATGGATGGTTTCATGC-3'	2457
	3'NH2-AGCAGAGGAGACCACTATACAAAC-5'	2458
T3192 Probe Set		
p	FRET/TARGET SET 2	
i	5'-CTCTCTCGTCTCAACTGTGTGGC-NH2-3'	2459
a	5'-TTAAGATCTGTAGTCTTCCGAAC-3'	2460
	3'NH2-AGCAGAGTTCACACACCCCG-5'	2461
Cartilage-derived morphogenic protein 1, human (h-CDMP1)		
A831 Probe Set		
p	FRET/TARGET SET 6	
i	5'-CCGTCACGCTCTCTGTTGCCTCCC-(biotin)-3'	2462
a	5'-AGCCTCCAACTTCACGCTGT-3'	2463
	5'-GGGAGGCAACAGGAGGCG-(biotin)-3'	2464
A1691 Probe Set		
p	FRET/TARGET SET 5	
i	5'-CCGCCGAGATCACTGAAGAGGATGCTGATGG-(biotin)-3'	2465
a	5'-ACACCACGTTGTTGGCAGAGTCAAG-3'	2466
	5'-CCATCAGCATCCTCTTCAGTGATCTCGG-(biotin)-3'	2467
b-actin, rat (r-bACT)		
C1671 Probe Set (longer)		
p	FRET/TARGET SET 6	
i	5'-CCGTCACGCTCGCCTTAGGGTTCA-NH2-3'	2468
a	5'-TCTGGGTCATCTTTTCACGGTTGA-3'	2469
s	3'-GCGGAGCGGAATCCCAAGT-5'	2470
	5'-GAGGGGCCTCGGTGAGC-3'	2471
Bile Salt port Pump, rat (r-BSEP)		
p	FRET/TARGET SET 5	
p	5'-CCGCCGAGATCACGAGTCTTGCCCTTTC-(biotin)-3'	2472
i	5'-CCGCCGAGATCACGAGTCTTGCCCTTTC-NH3-3'	2473
a	5'-TTCACACACGCTTTTCCCTGGTATCTCC-3'	2474
	3-(biotin)-CTAGTGCTCAAGAACGGAAAG-5'	2475
G1288 Probe Set		
p	FRET/TARGET SET 2	
i	5'-CTCTCTCGTCTCCCAGAAAGGCCAGT-(biotin)-3'	2476
a	5'-TTCCTTCATCTAGGACAAAGTGTGGAACCATAA-3'	2477
	5'-ACTGGCCTTCTGGGAGACG-(biotin)-3'	2478

FIGURE 47BO

A790 Probe Set	p	FRET/TARGET SET 6		2479
	i	5'-CCGTCACGCCTCTTTCCTCATTCTCCT-(biotin)-3'		2480
	a	5'-CCCAATTTCGATCTCATATTCTCCGGAAGTAAATC-3'		2481
		5'-AGGAGAAATGAGGAAAGAGGGCG-(biotin)-3'		
Nitric Oxide Synthase 2A, human (h-iNOS2)		FRET/TARGET SET 6		2482
	p	5'-CCGTCACGCCTCTGTCTTTCTTTCGCG-(biotin)-3'		2483
	i	5'-GCTGCACCGCCACCCG-3'		2484
	a	5'-GCGAAGAAAGACAGAGGGCG-(biotin)-3'		
Neutral Carboxy Ester Hydrolase, human (h-NCEH)		FRET/TARGET SET 7		2485
	p	5'-AACGAGGGCGCACTCTTCTTATTCTCCTG-B-3'		2486
	p	5'-AACGAGGGCGCACTCTTCTTATTCTCCTG-NH2-3'		2487
	i	5'-GTCTCAAAGTCCACCACAGTCTC-3'		2488
	s	5'-CAGGAGATAAGAGAGTGCGG-(biotin)-3'		
A1221 Probe Set		FRET/TARGET SET 6		2489
	p	5'-CCGTCACGCCTCTCTTCTTATTCTCC-3'		2490
	p	5'-CCGTCACGCCTCTCTTCTTATTCTCC-NH2-3'		2491
	i	5'-GTCTCAAAGTCCACCACAGTCTC-3'		2492
	a	3'-GCGGAGAGAGAATAAGAGG-5'		2493
	s	5'-TGGGATGGGTCTCTGGGC-3'		
C1309. Probe Set		FRET/TARGET SET 8		2494
	p	5'-GAACGGCAGGTTTGGCACTCTTGGCATT-NH2-3'		2495
	i	5'-CAGGTAGGCGTAGGTCTTGA-3'		2496
	a	3'-NH2-CGTCCAACCCGTGAGAACCCGTAA-5'		2497
	s	5'-GGCTCTGTGCTGGGCTA-NH2-3'		
Peroxisomal Proliferation Activator Protein Receptor alpha, human (h-PPAR_)		FRET/TARGET SET 6		2498
	p	5'-CCGTCACGCCTCCGACTCCGCT-(biotin)-3'		2499
	i	5'-CGGTGCAGCGCAGCATT-3'		2500
	a	5'-AGACGGAGTCGGGAGGGCG-(biotin)-3'		
A1044 Probe Set		FRET/TARGET SET 6		2501
	p	5'-CCGTCACGCCTCTGTCACTTGATCGTTCT-(biotin)-3'		2502
	i	5'-TGGCCTCATAAACTCCGTATTTAGCAAG-3'		2503
	a	5'-AGAACGATCAAGTGACAGAGGGCG-(biotin)-3'		

FIGURE 47BP

C 1311 Probe Set		
p	FRET/TARGET SET 6	2504
i	5'-CCGCCGAGATCACGTGTCCTACGTTTAGAAG-(biotin)-3'	2505
a	5'-CACATGTACAATACCCCTCCTGCAATTTTTC AATC-3'	2506
	5'-CTTCTAAACGTTAGGACACGTCGTCTCGG-(biotin)-3'	
Peroxisomal Proliferation Activator Protein Receptor beta, human (h-PPAR_)		
A595 Probe set	FRET/TARGET SET 6	
6B. Designed truncated probe and stackers to reduce temperature		
p	5'-CCGTCACGCCCTCTCTTCTGAATCCTTGC-3'	2507
i	5'-CTGGCACCTTGTTCGGTTCTA-3'	2508
a	3'-NH2-GCGGAGAGAAGACTTAGAACG-5'	2509
s	5'-AGCTGCGCTCACACTTCTCGT-3'	2510
6C. Design for new INVADER assay with 50% 2'-Me.	FRET/TARGET SET 6	
p	5'-CCGTCACGCCCTCTCTTCTGAATCCTTG-NH2-3'	2511
i	5'-CTGGCACCTTGTTCGGTTCTA-3'	2512
a	3'-NH2-GCGGAGAGAAGACTTAGAAC-5'	2513
s	5'-CAGCTGCGCTCACACTTCTCGT-NH2-3'	2514
6D. Truncate probe.	FRET/TARGET SET 6	
p	5'-CCGTCACGCCCTCTCTTCTGAATCCTT-NH2-3'	2515
i	5'-CCTGGCACCTTGTTCGGTTCTA-3'	2516
s	5'-GCAGCTGCGCTCACACTTCTCGT-NH2-3'	2517
C891 Probe Set	FRET/TARGET SET 7	
p	5'-AACGAGGCGCACGGTAGGCATTGTAGA-3'	2518
i	5'-CCTCTCTTTTGGTCATGTTGAAGTTTTTCAC-3'	2519
a	3'-CGCGTGCCATCCGTAACATCT-5'	2520
s	5'-TGTGCTTGGAGAAGGCCCTTCA-3'	2521
Substance P, rat (r-SubP)		
C344 Probe Set	FRET/TARGET SET 6	
p	5'-CCGTCACGCCCTCGCCACTTGTTTTTCA-NH2-3'	2522
i	5'-CCATGCCCATAAAGAGCCCTTTAACAGGA-3'	2523
a	3'-NH2-GCGGAGCGGTGAACAAAAAGT-5'	2524
s	NO STACKER	
A396 Probe Set	FRET/TARGET SET 6	
p	5'-CCGTCACGCCCTCTTTATGCCCTTTTGTGA-NH2-3'	2525

FIGURE 47BQ

i	5'-TGCCCATTAGTCCAACAAAGGAATCTGTA-3'	2526
a	3'-GCGGAGAAATACGGAAACACT-5'	2527
s	5'-GAGATCTGACCATGCCCATAAAGAGCC-NH2-3'	2528
C752 Probe Set		
p	FRET/TARGET SET 7	
i	5'-AACGAGGCGCACGCTGGCAAACTTGT-NH2-3'	2529
a	5'-CCTTTCTGTCTTTGGAGACTTGCATCA-3'	2530
s	3'-NH2-CGCGTGCAGCCGTTTGAACA-5'	2531
	5'-ACAACTCCATCAACACTGTGCTTTGCTG-NH2-3'	2532
Hepatic Lipase, human (h-LIPC)		
A830 Probe Set		
p	FRET/TARGET SET 7	
i	5'-AACGAGGCGCACTCTAGGAAGTGGA-NH2-3'	2533
a	5'-GTGCTGGGCAATATGTCTGTAGAGCG-3'	2534
s	3'-NH2-CGCGTGAGATCCTTCACCGT-5'	2535
	5'-GCCAGGCTGGAAGGAGC-NH2-3'	2536
C1154 Probe Set		
p	FRET/TARGET SET 5	
i	5'-CCGCCGAGATCACCGTCTCAGTTTGGT-NH2-3'	2537
a	5'-CGAGTAGTGACATGGTAAAGTTGTTGTATTGGCT-3'	2538
	3'-NH2-CTCTAGTGGCAGAGTCAAAACCA-5'	2539
Hepatic Lipase, rat (r-LIPC)		
G357 Probe Set		
p	FRET/TARGET SET 5	
i	5'-CCGCCGAGATCACCGTTCACGGGT-NH2-3'	2540
a	5'-GGGAGATCCAGTCCACTCAATCCA-3'	2541
s	3'-NH2-TCTAGTGGTGCAAGTGCCCCAA-5'	2542
	5'-GGGACTGTCGGGACTTCAGG-NH2-3'	2543
C1167 Probe Set		
p	FRET/TARGET SET 8	
i	5'-GAACGGCAGGTTTGGGGAATTTCTTTATTCTT-NH2-3'	2544
a	5'-ATTCTTTCGCCCCAGGGTGATG-3'	2545
s	3'-NH2-GTCCAAACCCCTTAAAGAAATAAGAA-5'	2546
	5'-CTTTTGTCCCCAGCAGTGT-NH2-3'	2547
Metabotropic Glutamate Receptor 2, rat (r-mGluR2)		
C1403 Probe Set		
p	FRET/TARGET SET 7	
i	5'-AACGAGGCGCACGCGTGGTGGGA-NH2-3'	2548
a	5'-GCCTCATAGCATCGCAGAGGTGT-3'	2549
s	3'-NH2-CGCGTGCCACCACCAACCCCT-5'	2550
	5'-CAGAGGGCACGGTGCATGTTGT-NH2-3'	2551

FIGURE 47BR

G-protein coupled receptor 2, rat (r-ETBR-LP2)	
A1629 Probe set	
p	
I	5'-GAACGGCAGGTTTGTGTCAGCAGACCGC-NH2-3'
a	5'-GAGAGGCCAAAGTGAGACCATGTGAAAGAAA-3'
s	3'-NH2-CGTCCAAACAGTCGTCTGGCG-5'
	5'-CATGGATCGGCATGCCCC-NH2-3'
	2552
	2553
	2554
	2555
i kappa b alpha, human (h-MAD3)	
C542 Probe Set	
p	
I	5'-AACGAGGGCAGGTTGTAGGGGGG-(biotin)-3'
a	5'-GCCCTGCTCACAGGCAAT-3'
	5'-CCCCCTACACCGTCCGC-(biotin)-3'
	2556
	2557
	2558
C363 Probe Set	
P	
I	5'-CCGTCACGGCTCGTCAAGTCCTTTTC-(biotin)-3'
A	5'-CACCTGGCGATCACATCCATGT
	5'-GAAAAGGCACTGACGAGGCG-(biotin)-3'
	2559
	2560
	2561
G953 Probe Set	
P	
I	5'-CCGTACGGCTCCCTCATCTCACT-(biotin)-3'
A	5'-ACTCTGACTCTGTGTCATAGCTCTT
	5'-AGTGAGGATGAGGGAGGCG-(biotin)-3'
	2562
	2563
	2564
C923 Probe Set	
P	
I	5'-AACGAGGGCGCACGGTTTCTAGTGCA-NH2-3'
A	5'-CTCACTCTCTGGCAGCATCTGAAT-3'
S	3'-NH2-CGCGTGCCCAAAAGATCACAGT-5'
	5'-GCTGCCCCAGCTGC-NH2-3'
	2565
	2566
	2567
	2568
Lecithin cholesterol acyltransferase, human (h-LCAT)	
C821 Probe Set (truncated Probe Design)	
p	
I	5'-CCGCCGAGATCACGGTTATGCGTG-NH2-3'
a	5'-CCAGGGGGGAGTGGTC-3'
s	3'-NH2-TCTAGTGCCAATACGCGACG-5'
	5'-CTCCTCTTCAGCTTGATGCTGG-NH2-3'
	2569
	2570
	2571
	2572
C827 Probe Design	
p	
I	5'-GAACGGCAGGTTTGGTGGTGGTTATGCG-NH2-3'
a	5'-AGAGGGAAACATCCAGGGGAG-3'
	3'-NH2-CGTCCAAACCCACCACCAATACGC-5'
	2573
	2574
	2575



FIGURE 47BS

C1217 Probe Design		
p	FRET/TARGET SET 5	2576
l	5'-CCGCCGAGATCACGAGATGCTGTATCCC-NH2-3'	2577
a	5'-GGTCAGGTTGCTGAAGACCATGTTG-3'	2578
	3'-NH2-TCTAGTGCTCTACGACATAGGG-5'	
Apolipoprotein A-1, human (h-ApoA1)		
A177 Probe Set		
p	FRET/TARGET SET 6	2579
l	5'-CCGTCACGCCTCTGAGCACATCCACG-NH2-3'	2580
a	5'-ACATAGTCTCTGCCGCTGTCTTA-3'	2581
s	3'-NH2-GCGGAGACTCGTGTAGGTGC-5'	2582
	5'-TACACAGTGGCCAGGTCCTT-NH2-3'	
A227 Probe Set (titrate length of 2'-O-Me in Invader)		
p	FRET/TARGET SET 8	2583
l	5'-GAACGGCAGGTTTGTCCTCCAGCGG-NH2-3'	2584
i	5'-GTCAAGGAGCTTTAGGTTTAGCTGTTTA-3'	2585
i	5'-GTCAAGGATCTTTAGGTTTAGCTGTTTA-3'	2586
A	5'-GTCCCAGTTGTCAAGGATCTTAGGTTTAGCTGTTTA-3'	2587
s	3'-NH2-GTCCAAACAGGGTTCGCC-5'	2588
	5'-AGCCTTCAAACTGGGACACATAGTCTC-NH2-3'	
G350 Probe Set		
p	FRET/TARGET SET 5	2589
l	5'-CCGCCGAGATCACTTCTGTCTCCTT-NH2-3'	2590
a	5'-CTCCTGCCTCAGGCCG-3'	2591
s	3'-NH2-TCTAGTGGAGACAGAGGAA-5'	2592
	5'-TTCCAGGTTATCCAGAACTCC-NH2-3'	
G233 Probe Set		
p	FRET/TARGET SET 11	2593
l	5'-AGAACGGCAGTCTTCTGTTTCCCAAG-NH2-3'	2594
a	5'-CCAGTTGTCAAGGAGCTTTAGGTTTAGT-3'	2595
s	3'-NH2-CGTCAGAAAGACAAAAGGGTCC-5'	2596
	5'-CGGAGCCTTCAAACCTGGGACACATAGT-NH2-3'	
Metabotropic Glutamate Receptor 1, rat (r-mGluR1)		
T934 Probe Set		
p	FRET/TARGET SET 11	2597
l	5'-AGAACGGCAGTCTTTAGAATAGGCGATCTGT-NH2-3'	2598
a	5'-CACTCAGGCTATGCTTGTGGCT-3'	2599
s	3'-NH2-GTCAGAACTTTATCCGCTAGACA-5'	2600
	5'-GGGATGTCGAACAGCTGGAGAAGATTCT-NH2-3'	
Ubiquitin, human (h-UBIQ)		

FIGURE 47BT

G119 Probe Set (MO4 Arm)	p	FRET/TARGET SET 6	2601
	l	5'-CCGTACAGCCTCCTTTACATTTTCTATCGTATCCG-(biotin)-3'	2602
	a	3'-(biotin)-GCGGAGGAAATGTAAAAAGATAGCATAGGC-5'	2603
G119 Probe Set	p	FRET/TARGET SET 5	2604
	l	5'-CGCCGAGATCACCTTTACATTTTCTATCGTATCCG-(biotin)-3'	2605
	a	3'-(biotin)-CTAGTGGAATGTAAAAAGATAGCATAGGC-5'	2606
G131 Probe Set	p	FRET/TARGET SET 9	2607
	l	5'-CATCTTCGCGGACTGGATCTTGGCC-(biotin)-3'	2608
	a	3'-(biotin)-GCCTGACCTAGAACCCGG-5'	2609
Scanned G119 region (ELISA format (No Arrestors)	p	5'-CTCTCTCGTCTTACATTTTCTATCGTATCCG-NH2-3'	2610
	p	5'-CTCTCTCGTCTTACATTTTCTATCGTATCCG-NH2-3'	2611
	p	5'-CTCTCTCGTCTCCTTACATTTTCTATCGTATCCG-NH2-3'	2612
	p	5'-CTCTCTCGTCTCCCTTACATTTTCTATCGTATC-NH2-3'	2613
	l	5'-CTCTCTCGTCTCGCCTTACATTTTCTATCG-NH2-3'	2614
	l	5'-GGAATTCCTTCCCTATCCTGGATCTTGA-3'	2615
	l	5'-GGAATTCCTTCCCTATCCTGGATCTTGGC-3'	2616
	l	5'-CCTTCCTTATCCTGGATCTTGGCA-3'	2617
	l	5'-TTCCCTTATCCTGGATCTTGGCCA-3'	2618
	l	5'-TCCTTATCCTGGATCTTGGCCTA-3'	2619
Ubiquitin, mouse (m-UBIq) G294 Probe Set	p	FRET/TARGET SET 7	2620
	l	5'-CCGTACAGCCTCCCTCTGGATGTTGTA-(biotin)-3'	2621
	a	3'-(biotin)-GCGGAGGGAAGACCTACAACAT-5'	2622
G294 Probe Set	p	FRET/TARGET SET 5	2623
	l	5'-CGCCGAGATCACCCCTTCTGGATGTTGTA-(biotin)-3'	2624
	a	3'-(biotin)-CTAGTGGGAAGACCTACAACAT-5'	2625
G294 Probe Set	p	FRET/TARGET SET 6	2626
	l	5'-CCGTACAGCCTCCCTTCTGGATGTTGTAAT-NH2-3'	2627

FIGURE 47BU

a	3'-NH2-GCGGAGGGAAGACCTACAACATTA-5'	2628
G294 Probe Set		
p	FRET/TARGET SET 6	
i	5'-CCGTCACGCCCTCCCTTCTGGATGTTGTAATC-NH2-3'	2629
a	5'-CCAGGTGCAGGGTTGACTA-3'	2630
	3'-NH2-GCGGAGGGAAGACCTACAACATTAG-3'	2631
T514 Probe Set		
p	FRET/TARGET SET 7	
i	5'-AACGAGCGGCACATGTTGTAATCAGAGGG-NH2-3'	2632
a	5'-TGCAGGGTTGACTCTTTCTGGA-3'	2633
	3'-NH2-CGCGTGTACAACATTAGTCTCTCCC-5'	2634
G750 Probe Set		
p	FRET/TARGET SET 9	
i	5'-CATCTTCGCGGACCTTCTGGATGTTGTA-NH2-3'	2635
a	5'-GGACCAGGTGCAGGGTTGACTT-3'	2636
	3'-NH2-GCCTGGAAGACCTACAACAT-5'	2637
G185 Probe Set		
p	FRET/TARGET SET 9	
i	5'-CATCTTCGCGGACTTCACGTTCTCGATGG-NH2-3'	2638
a	5'-CCCTCTTTATCCTGGATCTTGGCA-3'	2639
	3'-NH2-GCGCCTGAAGTGCAAGAGAGCTACC-5'	2640